

**ASBESTOS AND HAZARD SURVEY REPORT
GRAIN BELT OFFICE BUILDING
1215 MARSHALL AVENUE NE
MINNEAPOLIS, MINNESOTA**

Prepared for:

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*ASBESTOS AND HAZARD SURVEY REPORT
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1215 MARSHALL AVENUE NE, MINNEAPOLIS, MINNESOTA
JULY 21, 2006*

INTRODUCTION

PURPOSE OF THE SURVEY

This report presents the results of a hazard survey for asbestos-containing materials (ACM), mercury-containing lights, PCBs, lead-based paint, and other hazard material concerns at a commercial/office building identified as the Grain Belt Office Building located at 1215 Marshall Avenue NE, Minneapolis, Minnesota. Groundwater and Environmental Services, Inc. (GES) was authorized to perform this work by Mr. Steve Maki of the City of Minneapolis Community Planning and Economic Development (CPED) on June 12, 2006, under Notice To Proceed Number 002, Contract Number C-22893.

This report of findings was prepared for the exclusive use of CPED. The contents of this report may not be relied upon by any party other than CPED without the express written consent of GES. Please note that while every effort was made to identify all ACM at the facility, this survey should not be used as a "demolition survey" per Minnesota Pollution Control Agency (MPCA) guidelines. If demolition or extensive renovation is to be conducted, destructive sampling will be necessary to document the presence of hidden materials behind walls, in concrete blocks, under concrete slabs and within the roofing materials.

RECORDS REVIEW

No records, including as-builds were provided for review prior to this survey. However, Eneco Tech Midwest, Inc. conducted an asbestos survey of the basement in March and April 2003. The report is provided in Appendix A.



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FIELD ACTIVITIES

SITE DESCRIPTION

The building is a two-level commercial/office building constructed of stone, concrete, wood, steel with concrete and wood floors. The building does include a basement. Interior walls consist of gypsum board and plaster. The facility is heated by a natural gas-fired boiler, which provides radiant heat. Supplemental heating, air conditioning, and ventilation are provided by roof-mounted and pad HVAC units. The building was originally heated by steam lines via tunnels from the brew house (across Marshall Avenue). GES did not access these tunnels for this survey.

ASBESTOS SAMPLING AND ANALYSIS

On June 23, 2006, GES inspected the accessible interior materials suspected of containing asbestos in the facility. As previously mentioned, GES did not sample through destructive measures. Therefore, additional materials suspect for containing asbestos may be located under sub-flooring, within interior walls, or other areas not readily accessible.

During the survey, GES identified 23 homogeneous materials suspect for asbestos and collected 60 samples of materials suspected of containing asbestos. Of these samples, 53 were analyzed for asbestos content. **Materials considered suspect for asbestos content and subsequently sampled include:**

- 12" Ceiling tile – white with holes
- 12" Ceiling tile – white with dimples
- 12" Ceiling tile – white with fissures
- 9" Floor tile – yellow with black mastic
- 9" Floor tile – brown with black tar paper and brown mastic
- 9" Floor tile – black with black tar paper and brown mastic
- 4" Base cove – black with tan adhesive
- 4" Base cove – brown with brown adhesive
- 12" Floor tile – pink/brown with black mastic
- 12" Floor tile – tan with white leveler and yellow mastic
- Sheet vinyl flooring – brown
- Window glaze – tan with paint
- Acoustical spray – white heavy texture
- Iroweled plaster – white/tan
- Plaster – white/tan
- Carpet adhesive – yellow
- Floor leveler – gray
- Floor leveler – yellow/white
- Tar – black
- Spray plaster – white
- 8" Base cove – black
- 2'x 4' Ceiling panel – white/tan with dimples
- Attic insulation – tan



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Materials indicated in bold type were either assumed or found to be asbestos containing per Environmental Protection Agency (EPA) definitions of greater than 1% by volume.

The asbestos-containing yellow 9" floor tile is located in the open office area and offices. The 9" floor tile is nonfriable and in good condition. Friable means that when dry, the material can be crumbled, pulverized, or reduced to powder by hand pressure. The pink/brown 12" floor tile is located in the second floor mechanical room. The 12" floor tile is nonfriable and in good condition. The window glaze is located on the exterior windows. The window glaze is friable and is in poor condition. The white/tan acoustical spray is located in the front first floor offices and the second floor hall and offices. The acoustical spray is friable and is in good condition. The black tar is located on the under side of the sink in the basement kitchen. The tar is nonfriable and in good condition.

Asbestos sample locations are illustrated on **Figure 1**. A summary of the samples collected, condition, and ACM quantities are provided in **Table 1**. Copies of laboratory reports and chain-of-custody documentation are provided in **Appendix B**.

LEAD PAINT SAMPLING AND ANALYSIS

A limited paint survey was conducted at the facility to determine lead content. The intent of the lead paint survey was to identify lead content in paint by the use of a Niton XRF lead analyzer. The scope for this project was not to satisfy Housing and Urban Development (HUD) or target housing guidelines. GES did identify lead-based paint above Minnesota Department of Health (MDH) standards within the facility. A summary of the lead content and locations are provided in **Table 2**.

SPECIAL/HAZARDOUS MATERIAL WASTES SURVEY

GES conducted a limited assessment of the subject property to identify miscellaneous materials that may require special handling and/or disposal per local and state regulations.

The following types of special/ hazardous waste or items of potential concern were observed in the facility:

- 3 Boilers
- Several roof-mounted HVAC units
- 2 pad-mounted HVAC units
- 460 Fluorescent lamps and 210 ballasts
- Mercury switches
- Door closers
- Hot water heater
- Water cooler
- Fire extinguishers
- Refrigerator
- Stove
- Smoke detectors
- Exit signs
- Walk-in cooler



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- 3 Walk-in safes
- Drum of "BWI-101-L" sodium bisulfate potassium hydroxide – in boiler room
- 4, 5-gallon varnish – in boiler room
- 5-gallon construction materials (wall adhesive, wall stripper) -- in boiler room
- 5-gallon bucket with corrosive label – in boiler room
- Bucket/trash can with motor oil – in boiler room

The above-listed materials may require recycling, special disposal requirements and/or special handling prior to any renovation activities

In addition to the above identified materials, GES identified a tar-like material at the southeast basement wall (**Figure Basement West End**). A sample of black tar from the southeast basement wall was collected and analyzed for PCBs. PCBs were found in the tar at 33.8 part per million (ppm). Copies of laboratory reports and chain-of-custody documentation are provided in **Appendix C**.



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CONCLUSIONS/RECOMMENDATIONS

GENERAL ASBESTOS CONSIDERATIONS

The presence of asbestos in a building does not mean that the health of building occupants is necessarily endangered. However, any ACM remaining in a building should be properly maintained to assure the material remains in good condition. Generally, this is accomplished through a comprehensive Operations and Maintenance (O&M) plan. The O&M plan is designed to 1) clean up existing damaged or disturbed ACM, 2) prevent future release by minimizing ACM disturbance or damage, and 3) monitor the condition of the ACM. The program should continue until all ACM is removed or the building is demolished.

SHORT-TERM ASBESTOS CONSIDERATIONS

All ACM identified as damaged and located within a building that is accessible to contractors, employees, maintenance workers, or the general public should be immediately repaired. The following damaged ACM was identified:

- Window glaze

GES recommends the removal and/or repair of this material.

LONG-TERM ASBESTOS CONSIDERATIONS

GES identified asbestos-containing flooring materials (yellow 9" floor tile w/black mastic) in the first floor office area, and asbestos-containing flooring materials (12" pink/brown floor tile w/black mastic) in the second floor mechanical room, and asbestos-containing sink sound deadening material (black tar) under the sink in the basement kitchen. These materials are nonfriable and in good condition. GES identified asbestos-containing acoustical ceiling spray. This material is friable and in good condition. However, any impacts from drilling, sanding, abrading or other damage may render the material friable. GES recommends periodic inspection of the asbestos-containing flooring, sink sound deadening tar, and acoustical ceiling spray and the immediate repair of any damaged areas.

Any contractors or other personnel conducting work in the facility should be notified of the ACM and its location prior to conducting any work. **Also, any ACM scheduled to be impacted should be properly removed prior to renovation activities.** Asbestos work should be conducted by a Minnesota-licensed asbestos contractor.

Materials identified as suspect but not sampled include:

- Roofing materials
- Electrical-wiring materials
- Gypsum board with tape and joint compound
- Wall paneling and/or associated adhesive
- Ceramic tile, mortar, and adhesive
- Ceiling tile adhesive
- Laminate counter top



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- Any insulation behind safes or walk-in coolers
- Terrazzo floor

Also, GES did not access or inspect the tunnels that were used to house the steam lines used to heat the building. The tunnels should be assumed to contain asbestos. Finally, any building materials that have the potential to be impacted during possible renovation activities that are not identified in this report should be assumed to contain asbestos unless proven otherwise by sampling.

OTHER CONSIDERATIONS

Handling, recycling and/or disposal of special wastes/hazardous materials should be conducted prior to renovation or demolition activities according to the requirements specific to each waste material. Lead paint or lead-containing coatings are present at the facility. The Occupational Safety and Health Administration (OSHA) regulates the demolition, salvage, removal, encapsulation and other activities which can potentially expose workers to lead paint or lead-containing coatings (29 CFR 1910.62). The OSHA standards apply to all paint and other coatings containing lead in any detectable concentration. These standards, including exposure monitoring, will apply to any employees conducting work activities in the facility that will impact lead-containing paint. Also, the MPCA requires that all damaged or delaminating lead-based paint (paint with 0.5% lead by weight or greater) be removed or stabilized prior to demolition. Any damaged paint should be assumed to be lead based unless sample results indicate otherwise.

PCB-containing tar is located near the southeast corner of the basement. The source of the tar is unknown. However, it appears to have originated from behind a steel plate in the basement wall. GES recommends removal of the tar material for the interior of the building. GES also recommends the collection of soil samples from the exterior of the building wall at the steel plate to verify the presence or absence of the tar material.



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METHODOLOGY

ASBESTOS SAMPLING

The personnel who performed the asbestos building survey and sampling have completed, at a minimum, an EPA-approved training course in Asbestos Inspection, and the applicable refresher training courses. Copies of certifications are provided in **Appendix D**.

Suspect ACM was categorized into three principle material groupings:

- Surfacing Material - Sprayed-on, troweled-on, or otherwise applied
- Thermal Systems Insulation (TSI) - Any type of pipe, boiler tank or flue insulation
- Miscellaneous - Materials other than Surfacing or TSI (e.g., flooring, ceiling tiles, wall boards)

Suspect ACM was further categorized into homogeneous-material types. A homogeneous-material type is defined as a suspect ACM that has the same visual appearance (same color, texture, and pattern) and appeared to be applied or constructed during the same general period of time. The composition of sampled homogeneous materials appeared to be consistent within an area. However, no guarantee is given that the inferred homogeneous conditions exist. Materials are also categorized as friable or nonfriable; friable materials are those that when dry can be crushed, pulverized, or reduced to a powder by hand pressure.

Samples of homogeneous-material types were collected at random locations and sealed in polyethylene bags. Materials were wetted prior to sampling to minimize fiber/dust release to the environment.

Generally, at least three samples of a homogeneous material were collected as a sample set representing the material type. Samples from each homogeneous material type were analyzed until positive. That is, once a sample in a set was found to contain greater than 1 percent asbestos, the homogeneous-material type is assumed to contain asbestos and other samples in the set are not analyzed.

Samples were analyzed by Reservoirs Environmental Services, Inc., Denver, Colorado. Reservoirs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), Laboratory Code #200333-0, and participates in the NVLAP and AIHA Bulk Asbestos Quality Assurance Programs. Bulk Samples collected were analyzed utilizing the Environmental Protection Agency's Method for the Determination of Asbestos in Bulk Building Materials (EPA 600/R-93-116, July 1993). Additional details regarding the laboratory methodologies are provided in the Laboratory Report in **Appendix A**. Samples not entirely consumed during the analysis will be stored for a period of 30 days.

LEAD PAINT SAMPLING

The personnel who performed the lead paint survey have completed, at a minimum, an EPA-approved training course in Asbestos Inspection, 40-hour HAZWOPER training, and the applicable refresher training courses and the Niton instrument training course.



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LIMITATIONS

GES has performed the tasks discussed above in a thorough and professional manner consistent with industry standards and under supervision of a certified professional. GES cannot guarantee and does not warrant that this limited assessment has revealed all adverse environmental conditions affecting the site. Nor can GES warrant that the assessment requested will satisfy the dictates of, or provide a legal defense in connection with, environmental laws or regulations.

The results reported and any opinions reached by GES are for the benefit of the Client. The results and opinions set forth by GES in its report will be valid as of the date of the report. GES assumes no obligation to advise you of any changes that may later be brought to our attention.

SIGNATURES

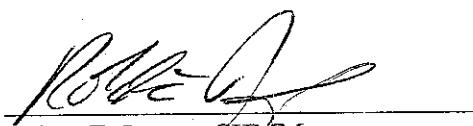
Prepared by:



Jay T. Moldenhauer
MDH Asbestos Building Inspector # AI3589

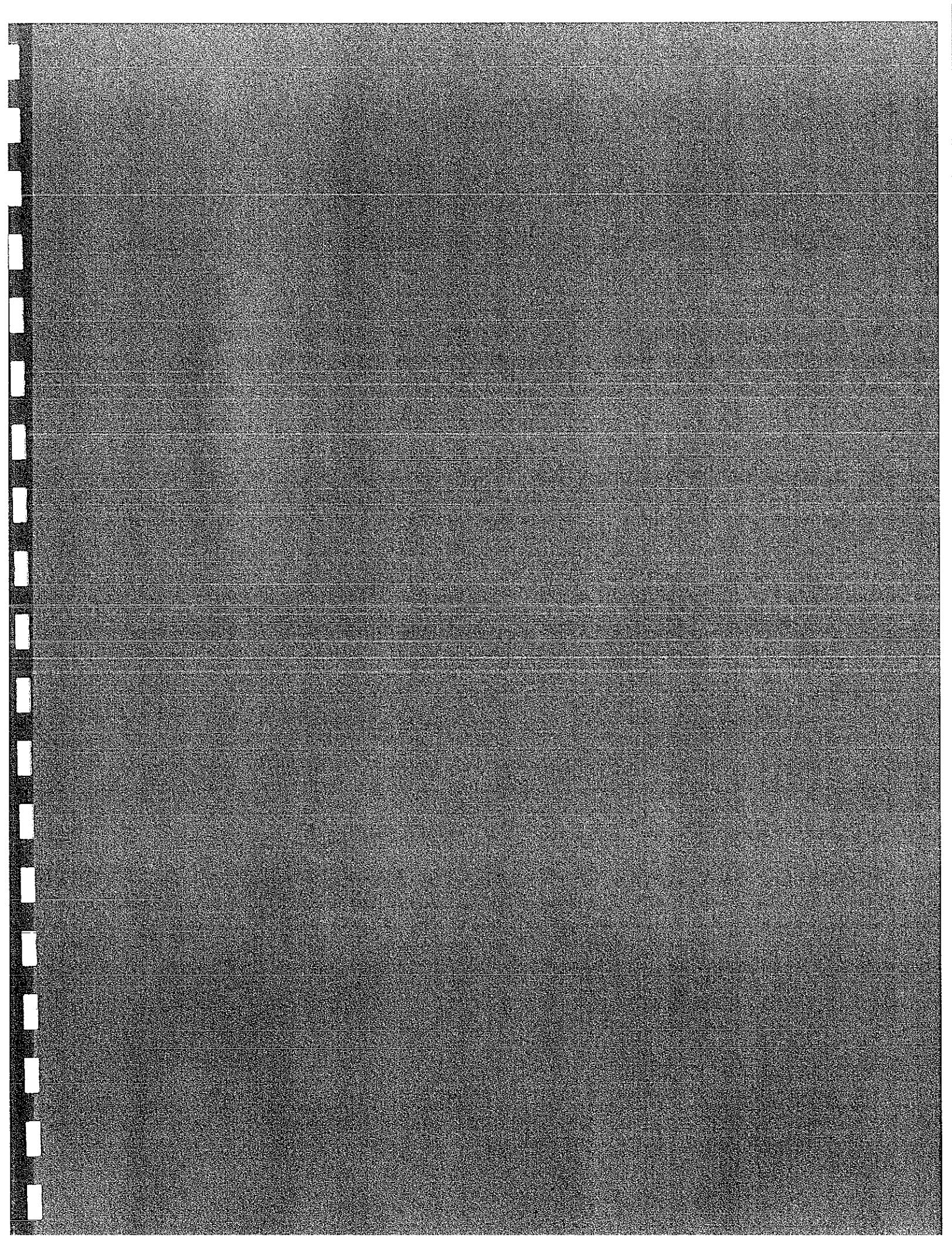
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Reviewed by:



Robert E. Jenson, CHMM
MDH Asbestos Building Inspector # AI3648

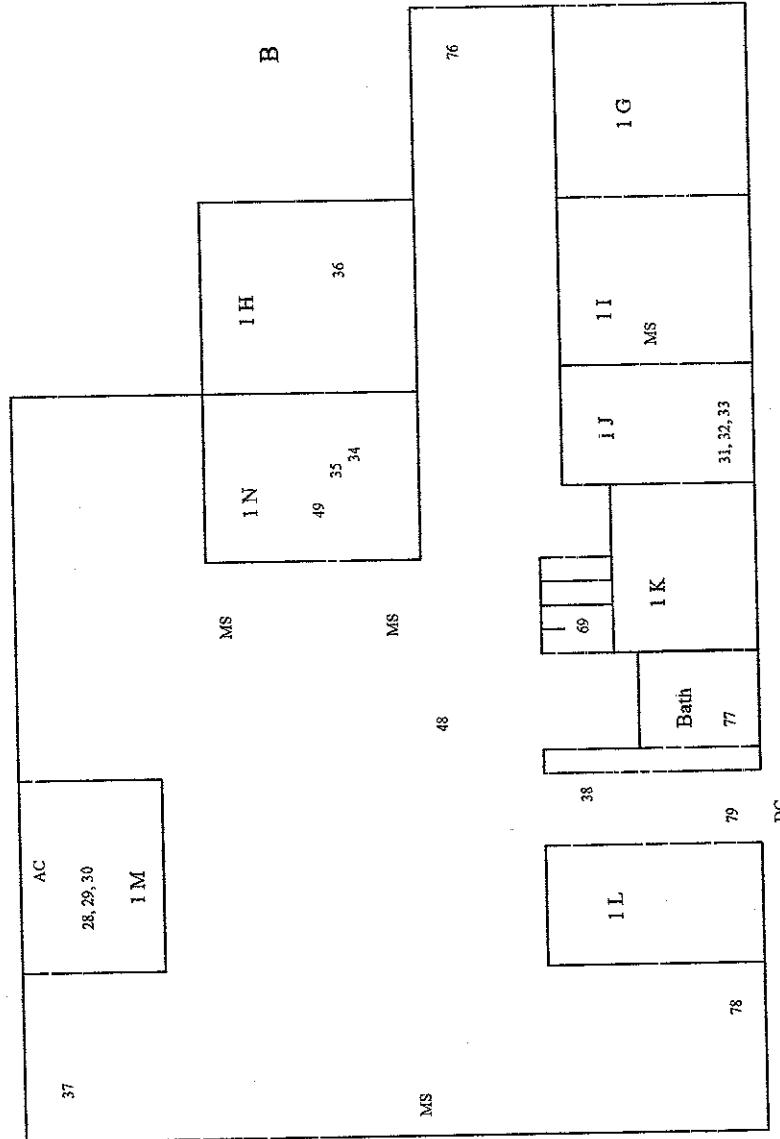
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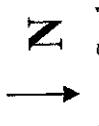
FIGURES

FIRST FLOOR
EAST END



76 = Asbestos sample location
MS = Mercury switch
AC = Air conditioner
DC = Door closer
1G = Office number

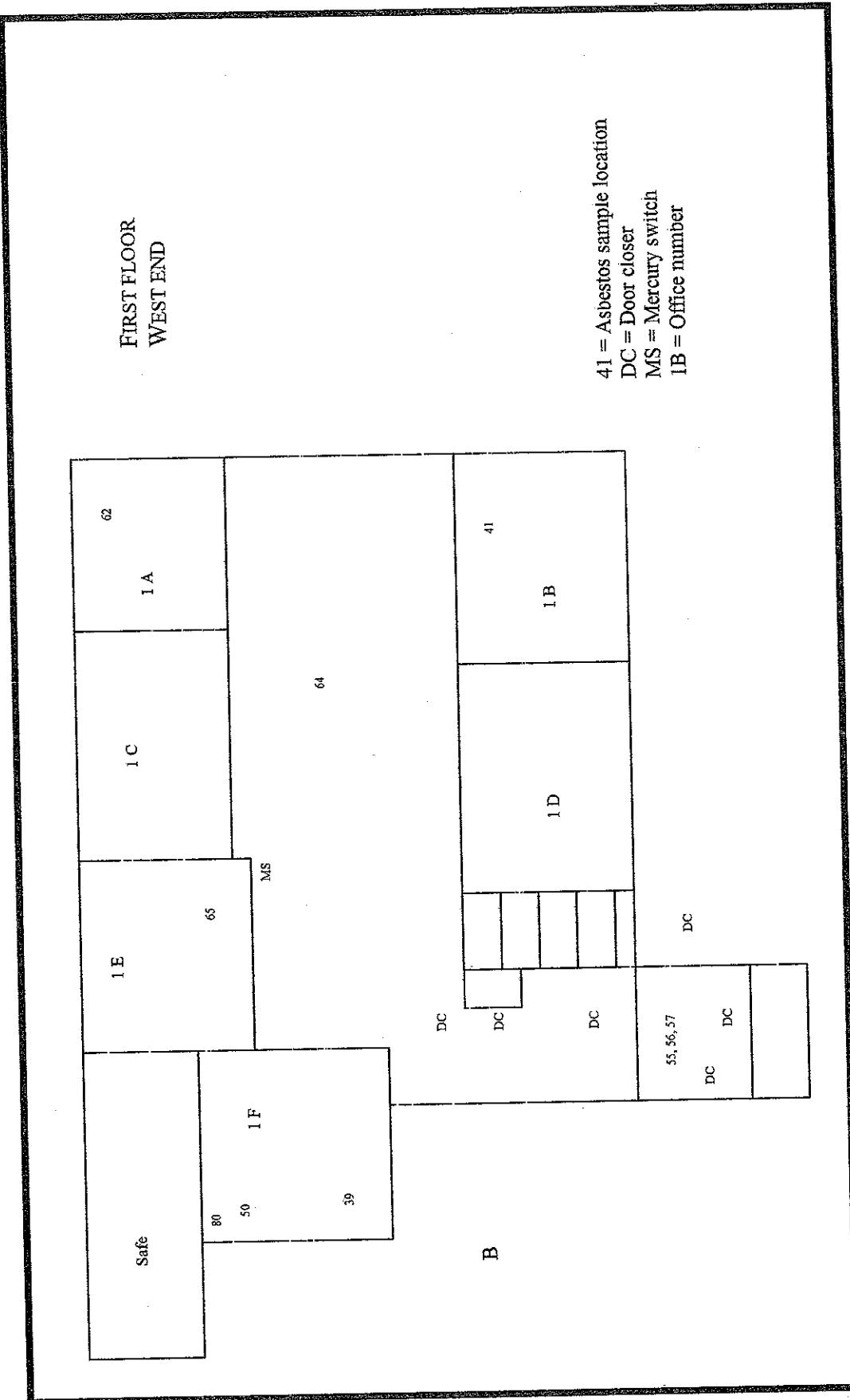
SAMPLE LOCATION MAP
Grain Belt Office Building
1215 Marshall St. NE
Minneapolis, Minnesota



Not to Scale

Groundwater & Environmental Services, Inc.





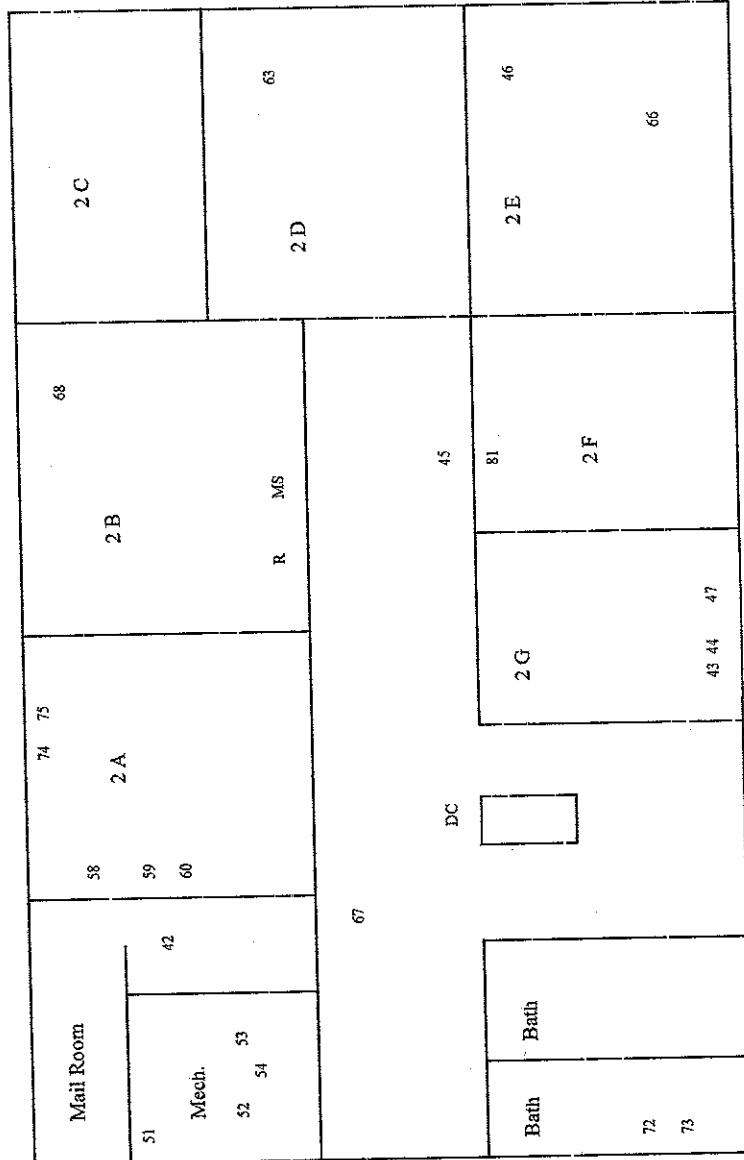
SAMPLE LOCATION MAP
Grain Belt Office Building
1215 Marshall St. NE
Minneapolis, Minnesota

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Not to Scale

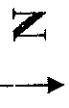
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SECOND FLOOR



SAMPLE LOCATION MAP
Grain Belt Office Building
 1215 Marshall St. NE
 Minneapolis, Minnesota

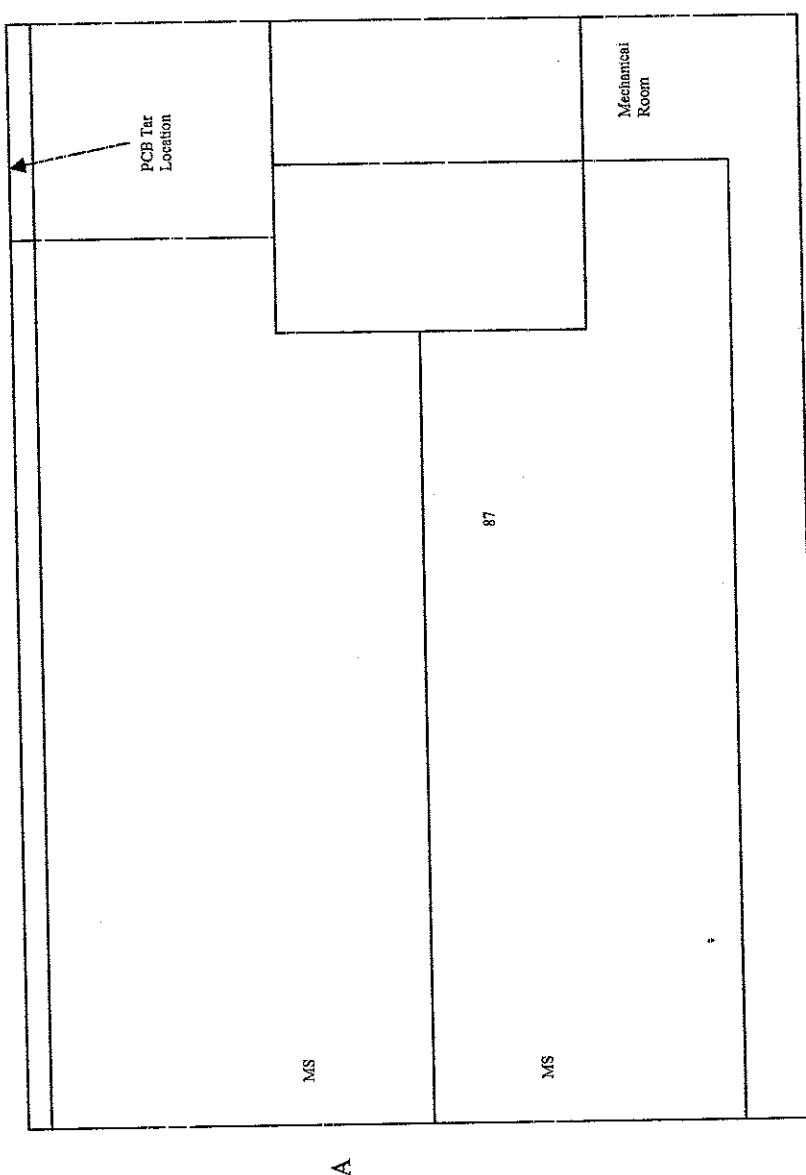


Not to Scale

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BASEMENT WEST END



1 = Asbestos sample location
DC = Door closer
MS = Mercury switch

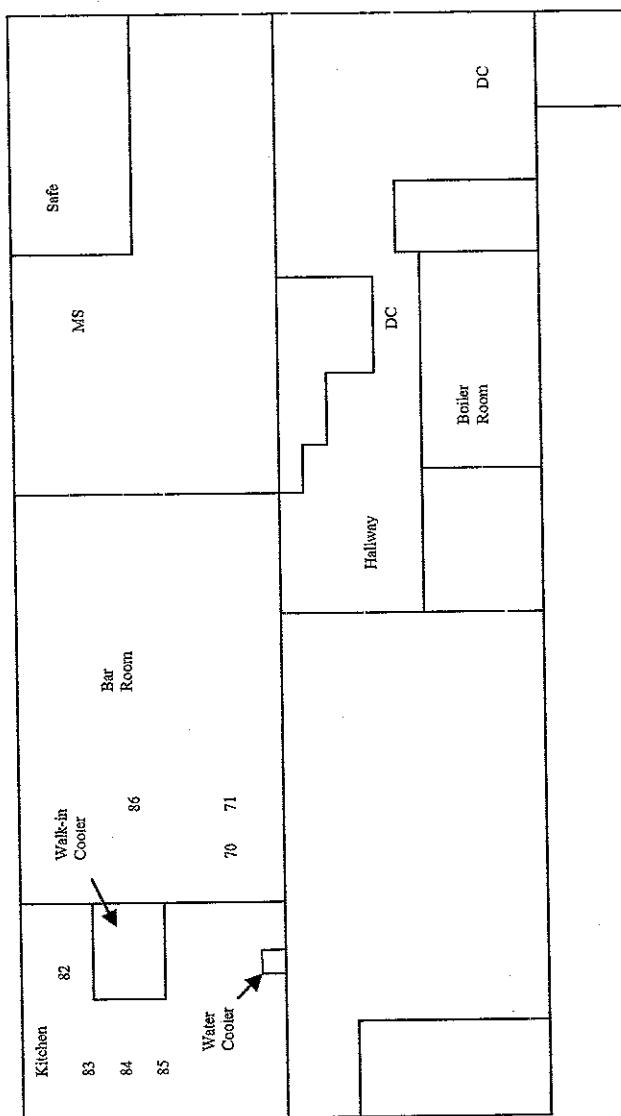
SAMPLE LOCATION MAP
Grain Belt Office Building
1215 Marshall St. NE
Minneapolis, Minnesota

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Not to Scale

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BASEMENT EAST END



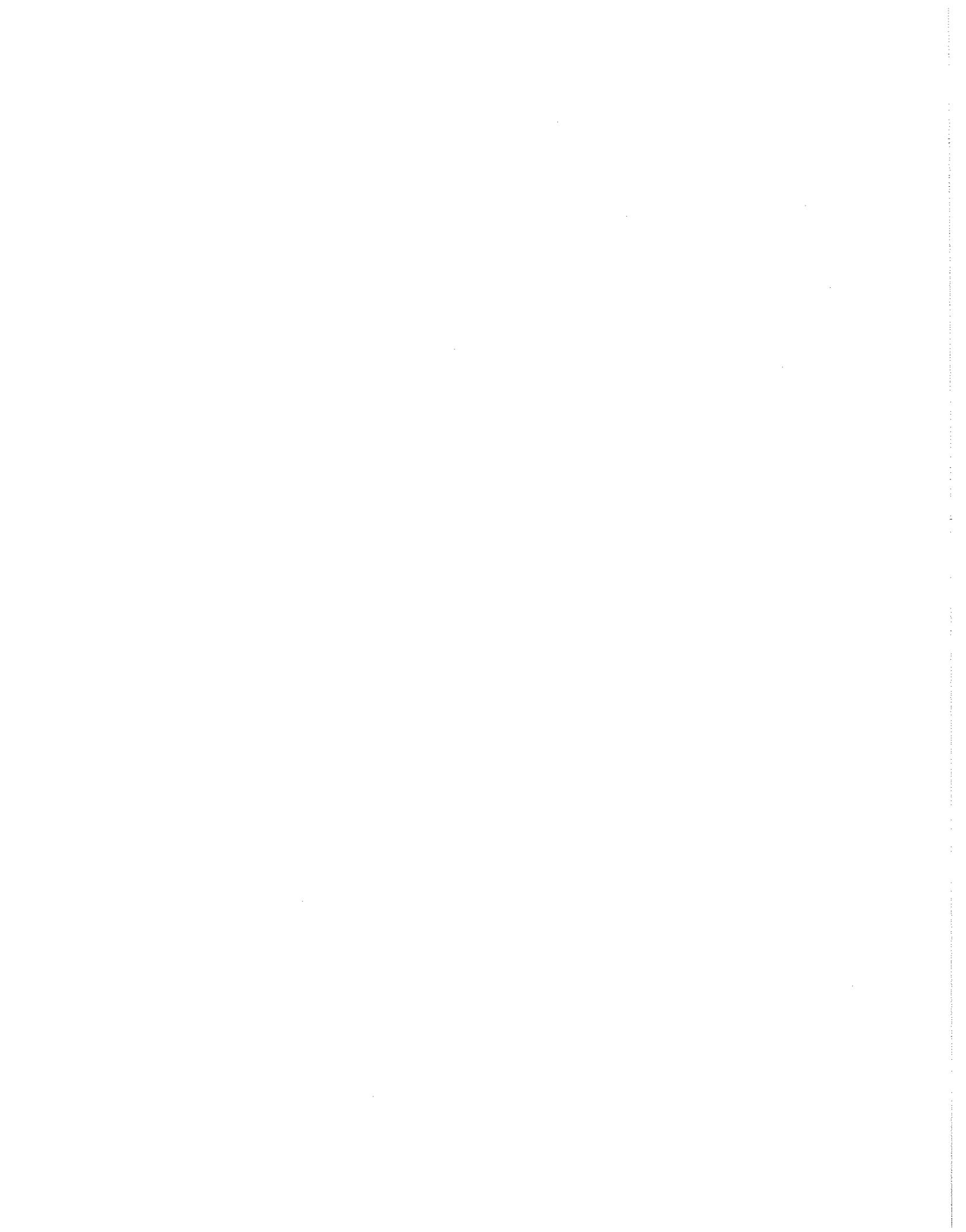
87 = Asbestos sample location
DC = Door closer
MS = Mercury switch

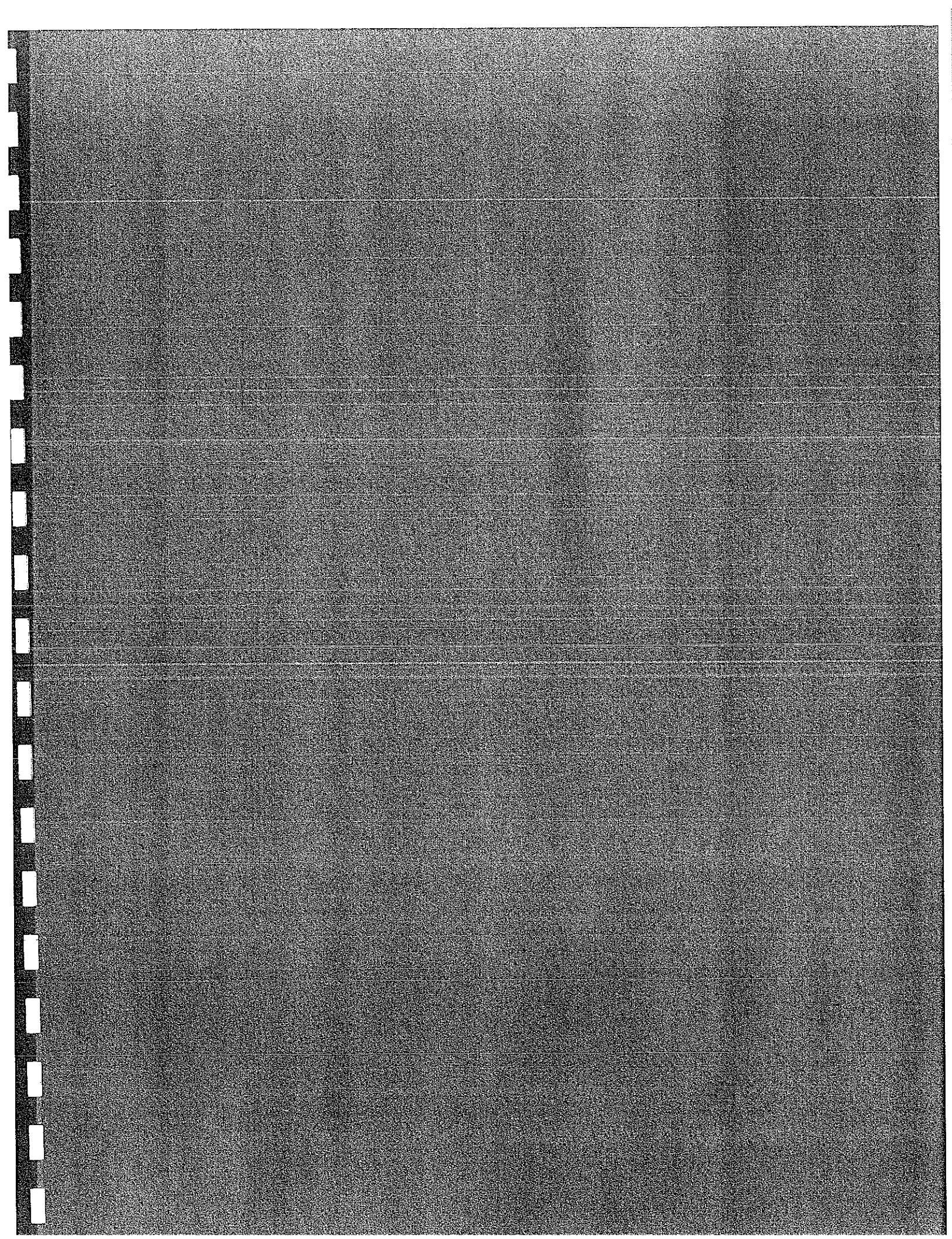
SAMPLE LOCATION MAP
Grain Belt Office Building
1215 Marshall St. NE
Minneapolis, Minnesota

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Not to Scale

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TABLES



Table I
ASBESTOS ANALYSIS SUMMARY

Grain Belt Office Building
1215 Marshall St. NE
Minneapolis, Minnesota

Material Description	Material Location	Sample #s	Quantity	Friable	Condition	Asbestos %
12" Ceiling tile - white with holes	Office 1M and open office space	28, 29, 30	---	---	---	None detected
12" Ceiling tile - white with dimples	Office 1J and 1K	31, 32, 33	---	---	---	None detected
12" Ceiling tile - white with fissures	Office 1N and 1H	34, 35, 36	---	---	---	None detected
9" Floor tile - yellow with black mastic	First floor offices, open areas, bath and office 2D	37, 38, 39, 40, 41	5200 SF	No	Good	15% Chrysotile 10% Chrysotile
9" Floor tile - brown with brown mastic and black tar paper	Office 1C, second floor hall, offices 2E and 2G	42, 43, 44	---	---	---	None detected
9" Floor tile - black with brown mastic and black tar paper	Office 1C, second floor hall, offices 2E and 2G	45, 46, 47	---	---	---	None detected
6" Base cove - black with brown adhesive	Open office area, office 1F, 1H, and 1N	48, 49, 50	---	---	---	None detected
6" Base cove - brown with brown adhesive	Second floor mechanical room	51	---	---	---	None detected
12" Floor tile - pink/brown with black mastic	Second floor Mechanical room	52, 53, 54	125 SF	No	Good	4% Chrysotile 15% Chrysotile
12" Floor tile - tan with yellow mastic and white leveler	Northwest entrance	55, 56, 57	---	---	---	None detected
Sheet vinyl flooring - brown	Office 2A	58, 59, 60	---	---	---	None detected
Window glaze - tan	Exterior windows	61, 62, 63	1000 LF	Yes	Poor	4% Chrysotile 2% Point Count (PC)
Acoustical ceiling spray - white	Throughout main and second floor offices	64, 65, 66, 67, 68	5500 SF	No	Good	2% Chrysotile 1.75% PC
Resinous plaster - white	Stairs to basement, bar room	69, 70, 71	---	---	---	Trace Chrysotile None detected

Note:

SF - Square feet
LF - Linear feet



Table 1
Asbestos Analysis Summary
Grain Belt Office Building
1215 Marshall St. NE
Minneapolis, Minnesota

Material Description	Material Location	Sample #S	Quantity	Friable	Condition	Asbestos %
Plaster	Second floor baths, hall, office 2A	72, 73, 74, 75, 76	---	---	---	None detected
Carpet adhesive - yellow	Carpet on first floor	77, 78, 79	---	---	---	None detected
Leveler - gray	Office 1F	80	---	---	---	None detected
Leveler - yellow/white	Office 2F	81	---	---	---	None detected
Resinous tar - black	Kitchen sink	82	6 SF	No	Good	3% Chrysotile
Plaster - white	Kitchen and bar room pipes	83, 84, 85	---	---	---	None detected
8" Base cove - black	Bar room	86	---	---	---	None detected
2' x 4' Ceiling panel - white with dimples	Storage 2	87	---	---	---	None detected
Insulation - tan	Attic	88	---	---	---	None detected

Note:

SF - Square feet

LF - Linear feet

Table 2

NITON LEAD ANALYSIS SUMMARY

Grain Belt Office Building
1215 Marshall Street NE
Minneapolis, Minnesota

Component	Substrate	Location/Side	Condition	Color	Lead	Units
WALL	PLASTER	WEST ENTRY	INTACT	WALLPAPER	1.6	mg / cm²
WALL	PLASTER	WEST ENTRY/NORTH	INTACT	WALLPAPER	0.02	mg / cm ²
WALL	PLASTER	WEST ENTRY/SOUTH	INTACT	WALLPAPER	BDL	mg / cm ²
WAINSCOT	WOOD	WEST ENTRY/EAST	INTACT	BROWN STAIN	BDL	mg / cm ²
DOOR	WOOD	WEST ENTRY/EAST	INTACT	BROWN STAIN	BDL	mg / cm ²
DOOR	WOOD	WEST ENTRY/WEST	INTACT	BROWN STAIN	BDL	mg / cm ²
WALL	PLASTER	1A/NORTH	INTACT	WALLPAPER	BDL	mg / cm ²
WALL	PLASTER	1A/NORTH	INTACT	WALLPAPER	BDL	mg / cm ²
WALL	PLASTER	1A/EAST	INTACT	WALLPAPER	BDL	mg / cm ²
WALL	PLASTER	1A/EAST	INTACT	BROWN STAIN	BDL	mg / cm ²
WAINSCOT	WOOD	1A/NORTH	INTACT	BROWN STAIN	BDL	mg / cm ²
WAINSCOT	WOOD	1A/WEST	INTACT	BROWN STAIN	BDL	mg / cm ²
WAINSCOT	WOOD	1A/SOUTH	INTACT	BROWN STAIN	BDL	mg / cm ²
WINDOW	WOOD	1A/SOUTH	INTACT	BROWN	6.2	mg / cm ²
WINDOW	WOOD	1A/WEST	INTACT	BROWN	3.5	mg / cm ²
WINDOW	WOOD	1B/WEST	INTACT	BROWN	4.8	mg / cm ²
WINDOW	WOOD	1B/NORTH	INTACT	BROWN	10.1	mg / cm ²
WALL	PLASTER	1B/NORTH	INTACT	WALLPAPER	1.9	mg / cm ²
WALL	PLASTER	1B/SOUTH	INTACT	WALLPAPER	BDL	mg / cm ²
WALL	PLASTER	1B/EAST	INTACT	WALLPAPER	BDL	mg / cm ²
WALL	PLASTER	1B/WEST	INTACT	BROWN STAIN	BDL	mg / cm ²
WAINSCOT	WOOD	1B/SOUTH	INTACT	BROWN STAIN	BDL	mg / cm ²
WAINSCOT	WOOD	1B/SOUTH	INTACT	BROWN STAIN	BDL	mg / cm ²
DOOR	WOOD	1B/EAST	INTACT	BROWN STAIN	BDL	mg / cm ²

Notes:
Results in bold are considered lead-based per MDH standards of 1.0 mg/cm² or greater.

1
BDL = Below instrument detection limit of 0.02 mg/cm²

Table 2

NITON LEAD ANALYSIS SUMMARY

Grain Belt Office Building
1215 Marshall Street NE
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Component	Substrate	Location/Side	Condition	Color	Lead	Units
DOOR	WOOD	1C/NORTH	INTACT	BROWN STAIN	BDL	mg / cm ^2
TRIM	WOOD	1C/NORTH	INTACT	BROWN STAIN	BDL	mg / cm ^2
WINDOW	WOOD	1C/SOUTH	INTACT	BROWN	BDL	mg / cm ^2
WINDOW	WOOD	1C/SOUTH	INTACT	BROWN	2	mg / cm ^2
WALL	PLASTER	1C/SOUTH	INTACT	WALLPAPER	0.03	mg / cm ^2
WALL	PLASTER	1C/NORTH	INTACT	WALLPAPER	0.03	mg / cm ^2
WALL	PLASTER	1C/EAST	INTACT	WALLPAPER	0.02	mg / cm ^2
WALL	PLASTER	1C/WEST	INTACT	WALLPAPER	0.02	mg / cm ^2
WALL	PLASTER	1D/NORTH	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	PLASTER	1D/SOUTH	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	PLASTER	1D/EAST	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	PLASTER	1D/WEST	INTACT	WALLPAPER	BDL	mg / cm ^2
WAINSCT	WOOD	1D/WEST	INTACT	BROWN STAIN	BDL	mg / cm ^2
WAINSCT	WOOD	1D/SOUTH	INTACT	BROWN STAIN	BDL	mg / cm ^2
WAINSCT	WOOD	1D/EAST	INTACT	BROWN STAIN	BDL	mg / cm ^2
WAINSCT	WOOD	1D/NORTH	INTACT	BROWN STAIN	BDL	mg / cm ^2
WINDOW	WOOD	1E/SOUTH	INTACT	BROWN	3.7	mg / cm ^2
WINDOW	WOOD	1E/NORTH	INTACT	BROWN STAIN	1.8	mg / cm ^2
DOOR	WOOD	1E/NORTH	INTACT	BROWN STAIN	BDL	mg / cm ^2
TRIM	WOOD	1E/NORTH	INTACT	BROWN STAIN	BDL	mg / cm ^2
TRIM	WOOD	1E/EAST	INTACT	BROWN STAIN	BDL	mg / cm ^2
TRIM	WOOD	1E/WEST	INTACT	BROWN STAIN	BDL	mg / cm ^2
WALL	PLASTER	1E/WEST	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	PLASTER	1E/SOUTH	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	PLASTER	1E/EAST	INTACT	WALLPAPER	BDL	mg / cm ^2

Notes:

Results in bold are considered lead-based per MDH standards of 1.0 mg/cm^2 or greater.

BDL = Below instrument detection limit of 0.02 mg/cm^2

Table 2

NITON LEAD ANALYSIS SUMMARY

Grain Belt Office Building
1215 Marshall Street NE
Minneapolis, Minnesota

Component	Substrate	Location/Site	Condition	Color	Lead	Units
WALL	PLASTER	1E /NORTH	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	DRYWALL	1F /WEST	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	DRYWALL	1F /SOUTH	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	DRYWALL	1F /EAST	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	DRYWALL	1F /NORTH	INTACT	WALLPAPER	0.6	mg / cm ^2
WALL	DRYWALL	1F /NORTH	INTACT	WALLPAPER	0.7	mg / cm ^2
WALL	WOOD	1F /NORTH	INTACT	BROWN STAIN	0.02	mg / cm ^2
TRIM	WOOD	1F /NORTH	INTACT	BROWN STAIN	BDL	mg / cm ^2
DOOR	WOOD	1F /WEST	INTACT	BROWN STAIN	BDL	mg / cm ^2
TRIM	WOOD	1G /NORTH	INTACT	BROWN STAIN	BDL	mg / cm ^2
WINDOW	WOOD	1G /NORTH	INTACT	BROWN	13.3	mg / cm ^2
WINDOW	WOOD	1G /NORTH	INTACT	BROWN	2.4	mg / cm ^2
WALL	PLASTER	1G /NORTH	INTACT	WALLPAPER	0.01	mg / cm ^2
WALL	PLASTER	1G /EAST	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	PLASTER	1G /WEST	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	PLASTER	1G /SOUTH	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	PLASTER	1I /NORTH	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	PLASTER	1I /WEST	INTACT	WALLPAPER	0.02	mg / cm ^2
TRIM	WOOD	1I /WEST	INTACT	BROWN STAIN	BDL	mg / cm ^2
DOOR	WOOD	1I /SOUTH	INTACT	BROWN STAIN	BDL	mg / cm ^2
WINDOW	WOOD	1I /NORTH	INTACT	BROWN	0.05	mg / cm ^2
WINDOW	WOOD	1I /NORTH	INTACT	BROWN	0.08	mg / cm ^2
WINDOW	WOOD	1I /NORTH	INTACT	BROWN	BDL	mg / cm ^2
WINDOW	WOOD	1J /SOUTH	INTACT	BROWN STAIN	0.03	mg / cm ^2

Notes:
Results in **bold** are considered lead-based per MDH standards of 1.0 mg/cm² or greater.
BDL = Below instrument detection limit of 0.02 mg/cm²

Table 2

NITON LEAD ANALYSIS SUMMARY

Grain Belt Office Building
1215 Marshall Street NE
Minneapolis, Minnesota

Component	Substrate	Location/Side	Condition	Color	Lead	Units
DOOR	WOOD	1J / SOUTH	INTACT	BROWN STAIN	BDL	mg / cm ^2
WALL	DRYWALL	1J / SOUTH	INTACT	WALLPAPER	9.4	mg / cm ^2
WALL	PLASTER	1J / NORTH	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	PLASTER	1J / EAST	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	PLASTER	1J / WEST	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	PLASTER	1K / WEST	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	PLASTER	1K / NORTH	INTACT	WALLPAPER	0.06	mg / cm ^2
WALL	PLASTER	1K / NORTH	INTACT	WALLPAPER	0.08	mg / cm ^2
WALL	PLASTER	1K / NORTH	INTACT	WALLPAPER	0.12	mg / cm ^2
WALL	PLASTER	1K / EAST	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	PLASTER	1K / SOUTH	INTACT	WALLPAPER	2.4	mg / cm ^2
DOOR	WOOD	1K / SOUTH	INTACT	BROWN STAIN	BDL	mg / cm ^2
TRIM	WOOD	1K / NORTH	INTACT	BROWN STAIN	0.06	mg / cm ^2
WINDOW	WOOD	1K / NORTH	INTACT	BROWN STAIN	0.07	mg / cm ^2
WINDOW	WOOD	1ST FLOOR BATH / EAST	INTACT	BROWN STAIN	0.05	mg / cm ^2
DOOR	WOOD	1ST FLOOR BATH / SOUTH	INTACT	BROWN STAIN	BDL	mg / cm ^2
TRIM	WOOD	1ST FLOOR BATH / SOUTH	INTACT	BROWN STAIN	0.08	mg / cm ^2
WALL	PLASTER	1ST FLOOR BATH / SOUTH	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	PLASTER	1ST FLOOR BATH / NORTH	INTACT	WALLPAPER	0.04	mg / cm ^2
WALL	PLASTER	1ST FLOOR BATH / EAST	INTACT	WALLPAPER	0.8	mg / cm ^2
WALL	PLASTER	1ST FLOOR BATH / EAST	INTACT	WALLPAPER	1.8	mg / cm ^2
WALL	PLASTER	1ST FLOOR BATH / WEST	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	PLASTER	1L / NORTH	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	PLASTER	1L / SOUTH	INTACT	WALLPAPER	BDL	mg / cm ^2

Notes:
Results in bold are considered lead-based per MDH standards of 1.0 mg/cm² or greater.

BDL = Below instrument detection limit of 0.02 mg/cm²

Table 2

NITON LEAD ANALYSIS SUMMARY

Grain Belt Office Building
1215 Marshall Street NE
Minneapolis, Minnesota

Component	Substrate	Location/Side	Condition	Color	Lead	Units
WALL	PLASTER	IL/EAST	INTACT	WALLPAPER	BDL	mg / cm ²
WALL	PLASTER	IL/WEST	INTACT	WALLPAPER	0.02	mg / cm ²
DOOR	WOOD	IL/SOUTH	INTACT	BROWN STAIN	BDL	mg / cm ²
WINDOW	WOOD	IL/NORTH	INTACT	BROWN STAIN	0.07	mg / cm ²
WINDOW	WOOD	IL/NORTH	INTACT	BROWN STAIN	0.07	mg / cm ²
WINDOW	WOOD	OPEN OFFICE /NORTH	INTACT	BROWN STAIN	0.1	mg / cm ²
WINDOW	WOOD	OPEN OFFICE /NORTH	INTACT	BROWN STAIN	0.06	mg / cm ²
WINDOW	WOOD	OPEN OFFICE /EAST	INTACT	BROWN STAIN	0.05	mg / cm ²
WINDOW	WOOD	OPEN OFFICE /EAST	INTACT	BROWN STAIN	0.11	mg / cm ²
WINDOW	WOOD	OPEN OFFICE /SOUTH	INTACT	BROWN STAIN	0.05	mg / cm ²
WINDOW	WOOD	OPEN OFFICE /SOUTH	INTACT	BROWN STAIN	0.3	mg / cm ²
WINDOW	WOOD	OPEN OFFICE /SOUTH	INTACT	BROWN STAIN	0.08	mg / cm ²
TRIM	WOOD	OPEN OFFICE /EAST	INTACT	BROWN STAIN	0.06	mg / cm ²
TRIM	WOOD	OPEN OFFICE /SOUTH	INTACT	BROWN STAIN	0.04	mg / cm ²
TRIM	WOOD	OPEN OFFICE /NORTH	INTACT	WALLPAPER	0.05	mg / cm ²
WALL	PLASTER	OPEN OFFICE /NORTH	INTACT	WALLPAPER	3.6	mg / cm ²
WALL BELOW TRIM	PLASTER	OPEN OFFICE /NORTH	INTACT	WALLPAPER	2.9	mg / cm ²
WALL BELOW TRIM	PLASTER	OPEN OFFICE /NORTH	INTACT	WALLPAPER	2.1	mg / cm ²
WALL ABOVE TRIM	PLASTER	OPEN OFFICE /EAST	INTACT	WALLPAPER	2.1	mg / cm ²
WALL ABOVE TRIM	PLASTER	OPEN OFFICE /SOUTH	INTACT	WALLPAPER	0.04	mg / cm ²
WALL ABOVE TRIM	PLASTER	OPEN OFFICE /SOUTH	INTACT	WALLPAPER	0.13	mg / cm ²
WALL ABOVE TRIM	PLASTER	OPEN OFFICE /EAST	INTACT	WALLPAPER	0.7	mg / cm ²
WALL ABOVE TRIM	PLASTER	OPEN OFFICE /EAST	INTACT	WALLPAPER	0.08	mg / cm ²
WALL	BRICK	NE ENTRY /EAST	PEELING	TAN	1.6	mg / cm ²
WALL	BRICK	NE ENTRY /NORTH	PEELING	TAN	1.4	mg / cm ²

Notes:

Results in bold are considered lead-based per MDH standards of 1.0 mg/cm² or greater.BDL = Below instrument detection limit of 0.02 mg/cm²

Table 2

NITON LEAD ANALYSIS SUMMARY

Grain Belt Office Building
1215 Marshall Street NE
Minneapolis, Minnesota

Component	Substrate	Location/Side	Condition	Color	Lead	Units
WINDOW	WOOD	NE ENTRY/NORTH	PEELING	BROWN	23.9	mg / cm ²
DOOR	METAL	NE ENTRY/WEST	INTACT	BROWN	BDL	mg / cm ²
WALL	PLASTER	1ST FLOOR HALL/NORTH	INTACT	WALLPAPER	0.02	mg / cm ²
WALL	PLASTER	1ST FLOOR HALL/NORTH	INTACT	WALLPAPER	0.4	mg / cm ²
WALL	PLASTER	1ST FLOOR HALL/NORTH	INTACT	WALLPAPER	0.03	mg / cm ²
WALL	PLASTER	1ST FLOOR HALL/NORTH	INTACT	WALLPAPER	15.9	mg / cm ²
WALL	PLASTER	1ST FLOOR HALL/NORTH	INTACT	WALLPAPER	BDL	mg / cm ²
WALL	PLASTER	1ST FLOOR HALL/NORTH	INTACT	WALLPAPER	BDL	mg / cm ²
WALL	PLASTER	1ST FLOOR HALL/SOUTH	INTACT	WALLPAPER	BDL	mg / cm ²
WALL	PLASTER	1ST FLOOR HALL/SOUTH	INTACT	WALLPAPER	BDL	mg / cm ²
WALL	PLASTER	1ST FLOOR HALL/SOUTH	INTACT	WALLPAPER	0.02	mg / cm ²
WALL	PLASTER	1ST FLOOR HALL/SOUTH	INTACT	WALLPAPER	0.27	mg / cm ²
WALL	BRICK	NW ENTRY/SOUTH	CRACKED	TAN	0.4	mg / cm ²
WALL	BRICK	NW ENTRY/SOUTH	CRACKED	TAN	0.16	mg / cm ²
WALL	BRICK	NW ENTRY/SOUTH	INTACT	WALLPAPER	0.03	mg / cm ²
WALL	PLASTER	NW ENTRY/EAST	INTACT	WALLPAPER	2.1	mg / cm ²
WALL	WOOD	1ST FLOOR HALL/NORTH	INTACT	BROWN STAIN	0.02	mg / cm ²
WAINSCT	WOOD	1ST FLOOR HALL/NORTH	INTACT	BROWN STAIN	BDL	mg / cm ²
WAINSCT	WOOD	1ST FLOOR HALL/NORTH	INTACT	BROWN STAIN	BDL	mg / cm ²
WAINSCT	WOOD	1ST FLOOR HALL/NORTH	INTACT	BROWN STAIN	BDL	mg / cm ²
WAINSCT	WOOD	1ST FLOOR HALL/SOUTH	INTACT	BROWN STAIN	BDL	mg / cm ²
WAINSCT	WOOD	1ST FLOOR HALL/SOUTH	INTACT	BROWN STAIN	BDL	mg / cm ²
WAINSCT	WOOD	1ST FLOOR HALL/SOUTH	INTACT	BROWN STAIN	BDL	mg / cm ²
WAIL	PLASTER	STAIRS	INTACT	WALLPAPER	0.2	mg / cm ²
WALL	PLASTER	STAIRS	INTACT	WALLPAPER	0.02	mg / cm ²
WALL	PLASTER	2ND FLOOR HALL/NORTH	INTACT	WALLPAPER	0.03	mg / cm ²

Notes:

Results in bold are considered lead-based per MDH standards of 1.0 mg/cm² or greater.BDL = Below instrument detection limit of 0.02 mg/cm²

Table 2

NITON LEAD ANALYSIS SUMMARY

Grain Belt Office Building
1215 Marshall Street NE
Minneapolis, Minnesota

Component	Substrate	Location/Side	Condition	Color	Lead	Units
WALL	PLASTER	2ND FLOOR HALL /NORTH	INTACT	WALLPAPER	0.02	mg / cm ^2
WALL	PLASTER	2ND FLOOR HALL /SOUTH	INTACT	WALLPAPER	21.4	mg / cm ^2
WALL	PLASTER	2ND FLOOR HALL /SOUTH	INTACT	WALLPAPER	17.8	mg / cm ^2
WALL	PLASTER	2ND FLOOR HALL /SOUTH	INTACT	WALLPAPER	20	mg / cm ^2
WAINSCOT	WOOD	2ND FLOOR HALL /SOUTH	INTACT	BROWN STAIN	BDL	mg / cm ^2
WAINSCOT	WOOD	2ND FLOOR HALL /SOUTH	INTACT	BROWN STAIN	BDL	mg / cm ^2
WAINSCOT	WOOD	2ND FLOOR HALL /SOUTH	INTACT	BROWN STAIN	BDL	mg / cm ^2
WAINSCOT	WOOD	2ND FLOOR HALL /SOUTH	INTACT	BROWN STAIN	1.6	mg / cm ^2
WAINSCOT	WOOD	2ND FLOOR HALL /SOUTH	INTACT	BROWN STAIN	1.6	mg / cm ^2
WAINSCOT	WOOD	2ND FLOOR HALL /SOUTH	INTACT	BROWN STAIN	BDL	mg / cm ^2
WAINSCOT	WOOD	2ND FLOOR HALL /NORTH	INTACT	BROWN STAIN	0.02	mg / cm ^2
WAINSCOT	WOOD	2ND FLOOR HALL /NORTH	INTACT	BROWN STAIN	1.9	mg / cm ^2
WAINSCOT	WOOD	2ND FLOOR HALL /NORTH	INTACT	BROWN STAIN	BDL	mg / cm ^2
WALL	WOOD	2C /NORTH	INTACT	BROWN STAIN	0.03	mg / cm ^2
WALL	WOOD	2C /SOUTH	INTACT	BROWN STAIN	BDL	mg / cm ^2
WALL	WOOD	2C /EAST	INTACT	BROWN STAIN	BDL	mg / cm ^2
WALL	WOOD	2C /WEST	INTACT	BROWN STAIN	BDL	mg / cm ^2
WALL	WOOD	2C /WEST	INTACT	BROWN	3.4	mg / cm ^2
WINDOW	WOOD	2C /WEST	INTACT	BROWN	3.3	mg / cm ^2
WINDOW	WOOD	2C /SOUTH	INTACT	BROWN	3.8	mg / cm ^2
WINDOW	WOOD	2D /WEST	INTACT	BROWN	2.6	mg / cm ^2
WINDOW	WOOD	2E /NORTH	INTACT	BROWN	2.3	mg / cm ^2
WINDOW	WOOD	2E /WEST	INTACT	BROWN	4	mg / cm ^2
WINDOW	WOOD	2F /WEST	INTACT	BROWN	2.5	mg / cm ^2
WINDOW	WOOD	2G /NORTH	INTACT	BROWN	BDL	mg / cm ^2
WINDOW	WOOD	2G /NORTH	INTACT	BROWN	BDL	mg / cm ^2

Notes:

Results in bold are considered lead-based per MDH standards of 1.0 mg/cm² or greater.BDL = Below instrument detection limit of 0.02 mg/cm²

Table 2

NITON LEAD ANALYSIS SUMMARY

Grain Belt Office Building
1215 Marshall Street NE
Minneapolis, Minnesota

Component	Substrate	Location/Side	Condition	Color	Lead	Units
WINDOW	WOOD	2A /SOUTH	INTACT	BROWN	1.7	mg / cm ^{^2}
WINDOW	WOOD	2B /SOUTH	INTACT	BROWN	1.6	mg / cm ^{^2}
WALL	WOOD	2D /EAST	INTACT	BROWN STAIN	0.01	mg / cm ^{^2}
WALL	WOOD	2D/ NIRTH	INTACT	BROWN STAIN	BDL	mg / cm ^{^2}
WALL	WOOD	2E /NORTH	INTACT	BROWN STAIN	BDL	mg / cm ^{^2}
WALL	PLASTER	2D /SOUTH	INTACT	BROWN STAIN	BDL	mg / cm ^{^2}
WALL	PLASTER	2D /SOUTH	INTACT	WALLPAPER	BDL	mg / cm ^{^2}
WALL	PLASTER	2F /SOUTH	INTACT	WALLPAPER	BDL	mg / cm ^{^2}
WALL	PLASTER	2F /SOUTH	INTACT	WALLPAPER	BDL	mg / cm ^{^2}
WALL	PLASTER	2F /SOUTH	INTACT	WALLPAPER	BDL	mg / cm ^{^2}
WALL	PLASTER	2F /SOUTH	INTACT	WALLPAPER	BDL	mg / cm ^{^2}
WALL	PLASTER	2F /SOUTH	INTACT	WALLPAPER	BDL	mg / cm ^{^2}
WALL	PLASTER	2F /SOUTH	INTACT	WALLPAPER	BDL	mg / cm ^{^2}
WALL	PLASTER	2F /SOUTH	INTACT	WALLPAPER	BDL	mg / cm ^{^2}
WALL	PLASTER	WBATH	INTACT	WALLPAPER	8.9	mg / cm ^{^2}
WALL	PLASTER	MBATH	INTACT	WALLPAPER	12.9	mg / cm ^{^2}
WALL	PLASTER	MECHANICAL	INTACT	GREEN	15	mg / cm ^{^2}
WALL	PLASTER	2ND FLOOR SAFE	INTACT	WHITE	BDL	mg / cm ^{^2}
WALL	PLASTER	BASEMENT KITCHEN	PEELING	WHITE	0.3	mg / cm ^{^2}
WALL	CONCRETE	BASEMENT KITCHEN	PEELING	WHITE	0.16	mg / cm ^{^2}
WALL	CONCRETE	BASEMENT KITCHEN	PEELING	WHITE	0.3	mg / cm ^{^2}
WALL	PLASTER	BASEMENT BAR ROOM/NORTH	INTACT	WHITE	0.16	mg / cm ^{^2}
WALL	PLASTER	BASEMENT BAR ROOM/NORTH	INTACT	WHITE	0.03	mg / cm ^{^2}
WALL	PLASTER	BASEMENT BAR ROOM /SOUTH	INTACT	WHITE	0.02	mg / cm ^{^2}
					0.21	mg / cm ^{^2}

Notes:

Results in bold are considered lead-based per MDH standards of 1.0 mg/cm² or greater.BDL = Below instrument detection limit of 0.02 mg/cm²

Table 2

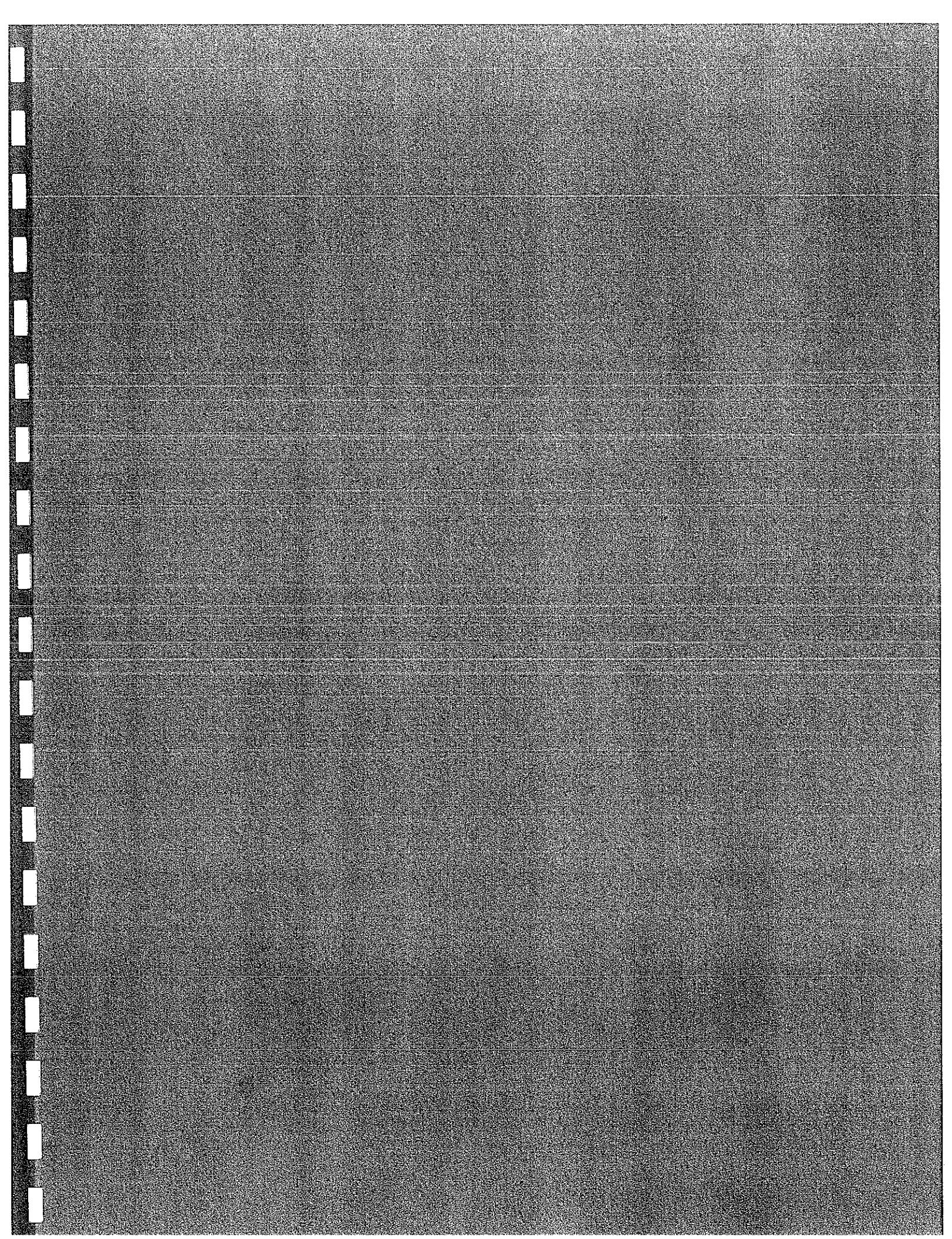
NITON LEAD ANALYSIS SUMMARY

Grain Belt Office Building
1215 Marshall Street NE
Minneapolis, Minnesota

Component	Substrate	Location/Side	Condition	Color	Lead	Units
WALL	PLASTER	BASEMENT ASSEMBLY ROOM /SOUTH	INTACT	WHITE	0.3	mg / cm ^2
WALL	PLASTER	BASEMENT ASSEMBLY ROOM /NORTH	INTACT	WHITE	0.3	mg / cm ^2
WALL	MNIBLIND	BASEMENT WBATH	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	DRYWALL	BASEMENT STORAGE 1	INTACT	WALLPAPER	BDL	mg / cm ^2
WALL	DRYWALL	BASEMENT STORAGE 2	INTACT	WALLPAPER	0.03	mg / cm ^2
WALL	DRYWALL	BASEMENT HALL	INTACT	WALLPAPER	0.04	mg / cm ^2
WALL	DRYWALL	BASEMENT PRACTICE ROOM	INTACT	WALLPAPER	0.03	mg / cm ^2
WALL	PLASTER	BASEMENT STAIRS	INTACT	WHITE	6	mg / cm ^2
DOOR	WOOD	WEST ENTRY EXTERIOR	CRACKED	BROWN	2.2	mg / cm ^2
DOOR	WOOD	WEST ENTRY EXTERIOR	CRACKED	BROWN	1.8	mg / cm ^2
WALL	BRICK	WEST ENTRY EXTERIOR	INTACT	YELLOW	0.29	mg / cm ^2
WINDOW	WOOD	WEST ENTRY EXTERIOR	CRACKED	YELLOW	5.7	mg / cm ^2
WINDOW	WOOD	WEST ENTRY EXTERIOR	CRACKED	YELLOW	4.5	mg / cm ^2
RAILING	METAL	SOUTH EXTERIOR	CRACKED	PINK	0.22	mg / cm ^2
RAILING	METAL	NORTH EXTERIOR	CRACKED	PINK	BDL	mg / cm ^2
WINDOW	WOOD	NORTH EXTERIOR	CRACKED	BROWN	1.6	mg / cm ^2
DOOR	METAL	NORTH EXTERIOR	INTACT	BROWN	BDL	mg / cm ^2

Notes:

Results in bold are considered lead-based per MDH standards of 1.0 mg/cm² or greater.





APPENDIX A

LIMITED ASBESTOS SURVEY RESULTS

EnecoTech Midwest, Inc.
2915 Waters Road • Suite 110
Eagan, Minnesota 55121-1562
(651) 405-1033 • Fax (651) 405-1036



June 15, 1999

03-01243-011

Mr. Steven Maki
Minneapolis Community Development Agency
105 5th Avenue South, Suite 600
Minneapolis, Minnesota 55401-2534

FILE COPY

**RE: Asbestos Survey
Grain Belt Complex - Office Building Basement
1215 Marshall Street NE
Minneapolis, Minnesota**

Dear Mr. Maki:

This correspondence summarizes the findings of an asbestos survey conducted at the basement of the Grain Belt office building located at 1215 Marshall Street NE in Minneapolis, Minnesota. This survey included only the basement of the facility. Other portions of the facility were not accessed and were not part of this survey. The project included the identification of asbestos-containing materials (ACM). This project was authorized by the Minneapolis Community Development Agency (MCDA) on May 13, 1999.

SITE DESCRIPTION

The facility is part of the former Grain Belt Brewery Complex in northeast Minneapolis. The portion of the building surveyed is constructed of stone, concrete wood and steel with concrete floors. The basement is currently used for parts assembly and storage. The basement is finished with wood, gypsum board and plaster. A mechanical room is located in the northwest corner of the basement and a boiler room is located in the north central portion of the basement. Hot water heating pipes from other buildings on the Grain Belt Complex enter and exit the basement at the mechanical room and boiler room.

ASBESTOS SAMPLING AND ANALYSIS

EnecoTech inspected the accessible interior materials suspected of containing asbestos in the basement of the facility. EnecoTech identified 9 homogeneous materials suspect for asbestos. Sampling locations are illustrated on a figure located in Attachment A.

EnecoTech collected 27 samples of materials suspected of containing asbestos. Of these samples, 25 were analyzed for asbestos content. Materials considered suspect for asbestos content and subsequently sampled include:



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- 12" ceiling tile
- Ceiling tile adhesive
- 2' x 4' ceiling panel - lengthwise fissures
- Base cove
- Base cove adhesive
- Gypsum board with tape and joint compound
- Wall plaster
- Pipe joint insulation
- Pipe run insulation

Of the materials sampled, the following were found to be asbestos containing per Environmental Protection Agency (EPA) definitions of greater than 1% by volume:

- Pipe joint insulation
- Pipe run insulation

The pipe insulation is located in pipe chases and above ceilings and other concealed areas of the basement. The material is friable and damaged in localized areas. Friable means that when dry, the material can be crumbled, pulverized or reduced to powder by hand pressure.

Much of the asbestos pipe insulation has been replaced with fiberglass insulation throughout the basement including in the boiler room. One pipe line centered above a ventilation duct has not been abated.

Two bulk samples (#17 and 20) collected from gypsum board with tape and joint compound contained concentrations of asbestos in the joint compound layer. The US EPA and Minnesota Pollution Control Agency (MPCA) have determined that the tape and joint compound are part of the wall system and therefore the layers can be composited. This sample contained <1% asbestos by composite analysis. Minnesota OSHA does not recognize composite analysis and will require engineering controls should the material be disturbed.

A table summarizing the sampled material locations, asbestos content and quantity is provided in Attachment A. Copies of the laboratory reports and chain of custody documentation are provided in Attachment B.



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CONCLUSIONS/RECOMMENDATIONS

Any ACM pipe insulation which may be impacted during repair, renovation or demolition must be properly removed by a licensed contractor. ACM that is to remain in the building should be managed with an Operations and Maintenance (O&M) plan until such time that it can be removed. The O&M plan should include training for any employee who may encounter the ACM as well as a means to inform employees, contractors and other personnel of its presence. Also, any material identified as suspect for asbestos that is not identified in this report should be assumed to contain asbestos.

It appeared that much of the ACM pipe insulation had been previously removed and replaced with fiberglass insulation. Residual ACM may be present under the fiberglass insulation if the ACM was not properly removed. Previous asbestos abatement reports were not available for review. Therefore, EnecoTech did not verify removal methodologies or quantities.

Only the basement of the facility was inspected for asbestos; therefore, other areas of the building may contain ACM. Minnesota OSHA requires the presumption that all thermal system insulation and sprayed-on and troweled-on surfacing materials contain asbestos if the building was constructed no later than 1980 unless tested to prove otherwise. The presumptive rule will apply to any pipe insulation or surfacing material in any assessable area of the building. Minnesota and federal OSHA have many requirements for ACM and presumed ACM (PACM) in areas assessable to employees and other personnel who may come in contact with the material including, but not limited to, employee and worker notification, labeling, and training. Operations and Maintenance (O&M) plans can be used to comply with OSHA and other regulations pertaining to asbestos until such time that the materials can be removed.

METHODOLOGY

The personnel who performed the asbestos building survey and sampling have completed, at a minimum, an EPA-approved training course in Asbestos Inspection, and the applicable refresher training courses.

Suspect ACM was categorized into three principle material groupings:

- Surfacing Material - Sprayed-on, troweled-on, or otherwise applied,
- Thermal Systems Insulation (TSI) - Any type of pipe, boiler tank or flue insulation, and;
- Miscellaneous - Materials other than Surfacing or TSI (e.g., flooring, ceiling tiles, wall boards).

Mr. Steven Maki
Asbestos Survey - Grain Belt Complex
Office Building Basement
1215 Marshall Street NE
June 15, 1999
Page 4

Suspect ACM was further categorized into homogeneous-material types. A homogeneous-material type is defined as a suspect ACM that has the same visual appearance (same color, texture, and pattern) and appeared to be applied or constructed during the same general period of time. The composition of sampled homogeneous materials appeared to be consistent within an area. However, no guarantee is given that the inferred homogeneous conditions exist. Materials are also categorized as friable or nonfriable; friable materials are those that when dry can be crushed, pulverized, or reduced to a powder by hand pressure.

Samples of homogeneous-material types were collected at random locations and sealed in polyethylene bags. Materials were wetted prior to sampling to minimize fiber/dust release to the environment.

At least three samples of a homogeneous material were collected as a sample set representing the material type. Samples from each homogeneous material type were analyzed until positive. That is, once a sample in a set was found to contain greater than 1 percent asbestos, the homogeneous-material type is assumed to contain asbestos and other samples in the set are not analyzed.

Samples were analyzed by Reservoirs Environmental Services, Inc., Denver, Colorado. Reservoirs is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), Laboratory Code # 200333-0, and participates in the NVLAP and AIHA Bulk Asbestos Quality Assurance Programs. Bulk Samples collected were analyzed utilizing the Environmental Protection Agency's Method for the Determination of Asbestos in Bulk Building Materials (EPA 600/R-93-116, July 1993). Additional details regarding the laboratory methodologies are provided in the Laboratory report in Attachment A. Samples not entirely consumed during the analysis will be stored for a period of 30 days.

LIMITATIONS

EnecoTech has performed the tasks discussed above in a thorough and professional manner consistent with industry standards and under supervision of a certified professional. EnecoTech cannot guarantee and does not warrant that this limited assessment has revealed all adverse environmental conditions affecting the site. Nor can EnecoTech warrant that the assessment requested will satisfy the dictates of, or provide a legal defense in connection with, environmental laws or regulations.

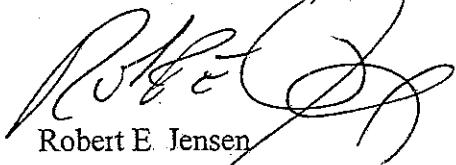
The results reported and any opinions reached by EnecoTech are for the benefit of MCDA. The results and opinions set forth by EnecoTech in its report will be valid as of the date of the report. EnecoTech assumes no obligation to advise you of any changes that may later be brought to our attention.

Mr. Steven Maki
Asbestos Survey - Grain Belt Complex
Office Building Basement
1215 Marshall Street NE
June 15, 1999
Page 5

Thank you for the opportunity to be of service for this project. Please feel free to contact EnecoTech at 651/405-1033 if you have any questions pertaining to this matter.

Respectfully,

EnecoTech Midwest, Inc.



Robert E. Jensen
Project Scientist
MDH Asbestos Inspector Certification # I3648

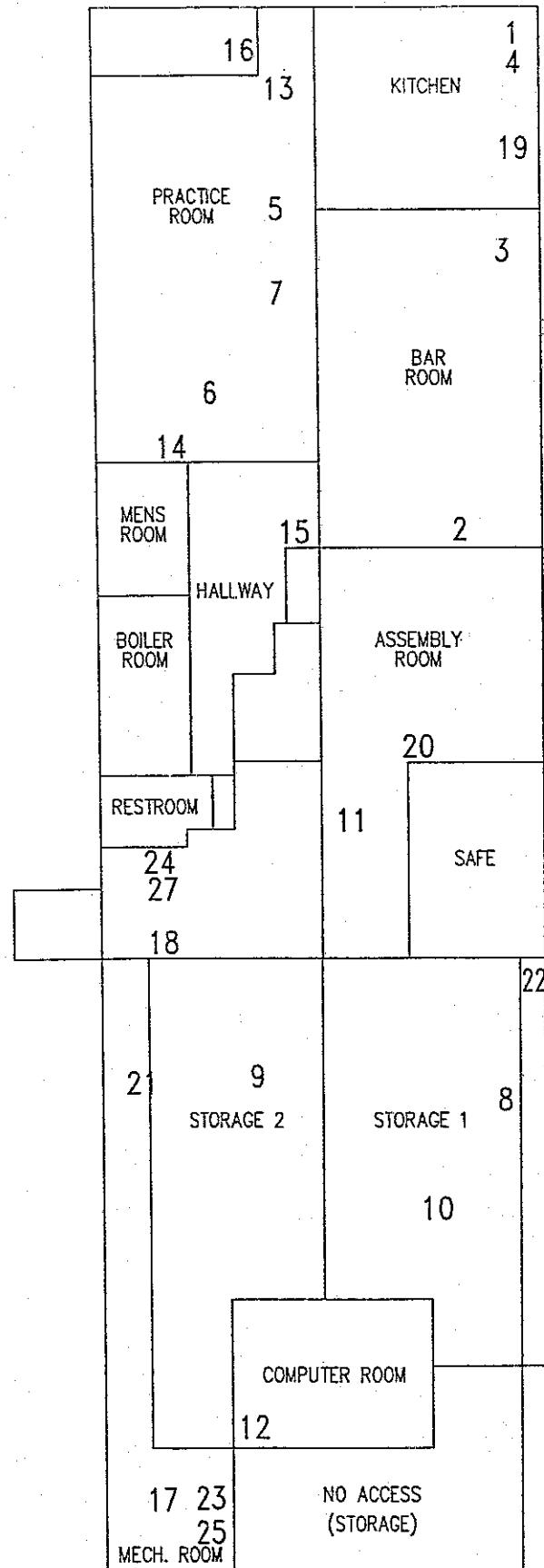
Attachments

u:\docs\mcda\1243-01\1\1215mar.ltr

ATTACHMENT A

SAMPLE LOCATION DRAWING
AND
ASBESTOS MATERIAL SUMMARY TABLE

~~Z~~
NOT TO SCALE



EnecoTech®
ENVIRONMENTAL CONSULTANTS

Project:

MCDA

1210 MARSHALL STREET NE
MINNEAPOLIS, MINNESOTA

SAMPLE LOCATIONS

File No.: 1243-011

ACAD File No.: 1243011 (1210-)

Date: 5/25/99

REV:

Drawn By:

MRP

Design By:

Checked By:

Approved By:

FIG. NO.:

1

Table 1
Asbestos Analysis Summary
Grain Belt Complex - Office Building Basement
1215 Marshall Street NE
Minneapolis, Minnesota

Material Description	Material Locations	Sample #'s	Quantity	Friable	NESHAPS Category	Asbestos, %
12" Ceiling tile	kitchen, lounge	1, 2, 3	---	---	---	none detected
Ceiling tile adhesive - brown	kitchen, lounge, practice room	4, 5, 6	---	---	---	none detected
2' x 4' Ceiling panel - length wise fissures	assembly room, storage rooms	7, 8, 9, 10, 11, 12	---	---	---	none detected
Base cove and associated adhesive	practice room, hallways	13, 14, 15	---	---	---	none detected
Gypsum board w/tape and joint compound	throughout basement	16, 17, 18	---	---	---	none detected
Wall plaster	throughout basement	19, 20, 21	---	---	---	<1% chrysotile*
Pipe joint insulation	pipe chases, boiler room and above ceilings	22, 23, 24	NA yes	---	---	8% chrysotile 7% amosite
Pipe insulation	pipe chases, boiler room and above ceilings	25, 26, 27	150 LF	yes	---	4% chrysotile 16% amosite

Note: LF - linear feet

* - plaster layer contained 5% chrysotile

ATTACHMENT B

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

JUN 11 1999

AIHA LAB I.D. 10758

RESERVOIRS ENVIRONMENTAL SERVICES, INC.

1827 GRANT STREET

DENVER, COLORADO 80203

(800) 678-7374

(303) 830-1986

FAX (303) 863-9196

June 3, 1999

Mr. Rob Jensen
Enecotech Midwest
2915 Waters Rd.
Suite 110
Eagan, MN 55121

RE: RES Job No. 60317-1 - 012343-011, MCDA-1215 Marshal Ave. NE -
Bulk Samples: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14,
15, 16, 17, 18, 19, 20, 21, 22, 25, 26 and 27.
Samples Received But Not Analyzed: 23 and 24.

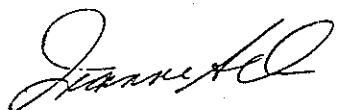
Dear Mr. Jensen:

Reservoirs Environmental Services, Inc. (RES, Inc.) has analyzed 25 bulk material samples by Polarized Light Microscopy (PLM) for asbestos content as per your request. The samples were received on May 25, 1999, and initial results were telephoned to your office within five days of receipt. PLM was used to analyze the bulk materials in compliance with guidelines established by the USEPA (EPA/600/R-93/116). The Analytical Results are presented in Table I. An additional two samples were received but have not been analyzed at this time, as per your request.

RES, Inc. has assigned job number RES 60317-1 to this study. This report is considered highly confidential and the sole property of Enecotech Midwest. RES, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. Samples will be disposed of after sixty days unless longer storage is requested. The US EPA guideline was developed for use on friable building materials and recommends the use of additional analyses for non-friable materials such as floor tiles. RES, Inc. recommends additional analyses to confirm negative PLM results on floor tiles. This report is not to be reproduced, except in full, without specific written approval by RESI. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. Only the PLM microscopy results contained in this report are subject to NVLAP accreditation, other information presented is not NVLAP accredited.

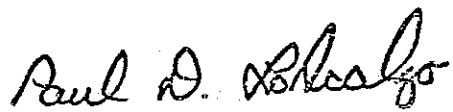
If you should have any questions about this report, please feel free to call me at 830-1986.

Sincerely,



Jeanne Spencer Orr
Vice President

RKD/pda



Analyst(s):

Paul D. Lo Scalzo
Paul F. Knappe

Greg Behnfeldt
Greg Tovrea

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
NVLAP Accredited Laboratory #1896

Page 3 of 6

TABLE I. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number:

Client:

Client Project:

Date Samples Received:

Analysis Type:

Turnaround:

RES 60317-1

Eneotech Midwest

012343-011, MCDA-1215 Marshai Ave. NE

Note: The US EPA requires use of stratified analysis for NESHAP and
AHERA compliance. Composite results only apply for specific exceptions.

May 25, 1999

PLM Short Report, Bulk

3-5 Day

Client Sample Number	Lab ID Number	L a y e r	Physical Description	Portion of Total Sample (%)	ASBESTOS CONTENT			Non-Asbestos Fibrous Components (%)			Non-Fibrous Components (%)
					BY LAYER	Mineral Visual Estimate (%)	C G S H Y A N I S T R S H	W T A O L A N I L R L C E R			
1	EM 408659	A	Brown fibrous material w/white micaceous plaster	100			ND	90	0	0	0
2	EM 408660	A	Brown fibrous material w/white micaceous plaster & white/red paint	100			ND	0	0	0	100
3	EM 408661	A	Brown fibrous material w/white micaceous plaster	100			ND	85	0	0	15
4	EM 408662	A	Multicolored paint B Brown fibrous material C Brown resin	15 15 70			ND ND ND	0 0 0	0 0 0	0 0 0	100 3 100
5	EM 408663	A	Brown fibrous material B Brown resin	15 85			ND ND	97 0	0 0	0 0	3
6	EM 408664	A	Multicolored paint B Brown fibrous material C Brown resin	15 15 70			ND ND ND	0 0 0	0 0 0	0 0 0	100 3 100
7	EM 408665	A	Tan fibrous perlitic material w/white paint & white resinous material	100			ND	35	35	0	30

ND = None Detected
TR = Trace, < 1% Visual Estimate

CELL = Cellulose

ORG = Organic

Trem-Act = Tremolite-Actinolite

WOLL = Wollastonite

BRUC = Brucite

GYP = Gypsum

SYNTH = Synthetic

PDL

Analyst: PDL

Data QA

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
NVLAP Accredited Laboratory #1896

Page 4 of 6

TABLE I. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number:
Client:
Client Project:
Date Samples Received:
Analysis Type:
Turnaround:

RES 60317-1
Eneotech Midwest
012343-011, MCDA-12115 Marshal Ave. NE
May 25, 1999
PLM Short Report, Bulk
3-5 Day

Client Sample Number	Lab ID Number	L a y e r	Physical Description	Portion of Total Sample (%)	ASBESTOS CONTENT		Non-Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
					BY LAYER	Mineral Visual Estimate (%)		
8	EM 408666	A	Gray fibrous perlitic material w/white paint & pink fibrous resinous material	100			ND	30 30 0 0 0 0 0 0 40
9	EM 408667	A	Tan fibrous perlitic material w/white paint & white resinous material	100			ND	35 35 0 0 0 0 0 0 30
10	EM 408668	A	Gray fibrous perlitic material w/white paint & pink fibrous resinous material	100			ND	30 30 0 0 0 0 0 0 40
11	EM 408669	A	Tan fibrous perlitic material w/white paint & white resinous material	100			ND	35 35 0 0 0 0 0 0 30
12	EM 408670	A	Tan fibrous perlitic material w/white paint & white resinous material	100			ND	30 40 0 0 0 0 0 0 30
13	EM 408671	A B C	White plaster White/pink resin Black resinous material	5 10 85			ND ND ND	0 0 0 0 0 0 0 0 100 0 0 0 0 0 0 0 0 100 0 0 0 0 0 0 0 0 100

ND = None Detected
CELL = Cellulose
TR = Trace, < 1% Visual Estimate

ORG = Organic
Trem-Act = Tremolite-Actinolite
WOLL = Wollastonite
BRUC = Brucite

GYP = Gypsum
SYNTH = Synthetic

✓
Data QA

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
NVLAP Accredited Laboratory #1896

Page 5 of 6

TABLE I. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number:

Eneotech Midwest

012343-011, MCDA-1215 Marshal Ave. NE

Date Samples Received:

May 25, 1999

PLM Short Report, Bulk

3-5 Day Turnaround:

Note: The US EPA requires use of stratified analysis for NESHAP and AHERA compliance. Composite results only apply for specific exceptions.

RES 60317-1

EM 408673

A White resin

EM 408674
A White plaster w/gray paint
B Tan fibrous material w/tan resin
C White plaster

EM 408675
A Pink plaster
B Tan fibrous material
C White plaster

EM 408676
A White plaster
B Tan/white fibrous material
C White plaster

EM 408677
A Tan/white granular plaster

EM 408678
A Multicolored paint w/white plaster & tan plaster

EM 408679
A White granular plaster w/tan paint

Client Sample Number	Lab ID Number	Physical Description	Portion of Total Sample (%)	ASBESTOS CONTENT			Non-Asbestos Fibrous Components (%)			Non-Fibrous Components (%)	
				BY LAYER	Mineral	Visual Estimate (%)	C	G	S		
14	EM 408672	A White resin	100				ND	0	0	0	0
15	EM 408673	A White resin	100				ND	0	0	0	0
16	EM 408674	A White plaster w/gray paint B Tan fibrous material w/tan resin C White plaster	5 10 85				ND	0	0	0	100
17	EM 408675	A Pink plaster B Tan fibrous material C White plaster	7 13 80				ND	4	0	0	96
18	EM 408676	A White plaster B Tan/white fibrous material C White plaster	2 18 80				ND	0	0	0	95
19	EM 408677	A Tan/white granular plaster	100				ND	97	0	0	3
20	EM 408678	A Multicolored paint w/white plaster & tan plaster	100				ND	4	0	0	96
21	EM 408679	A White granular plaster w/tan paint	100				ND	1	0	0	100

ND = None Detected

CELL = Cellulose

ORG = Organic

Trem-Act = Tremolite-Actinolite

WOLL = Wollastonite

BRUC = Brucite

GYP = Gypsum

SYNT = Synthetic

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Data QA

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
NVLAP Accredited Laboratory #1896

Page 6 of 6

TABLE I. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number:
Client:
Client Project:
Date Samples Received:
Analysis Type:
Turnaround:

RES 60317-1
Enercotech Midwest
012343-011, MCDA-1215 Marshal Ave. NE
May 25, 1999
PLM Short Report, Bulk
3-5 Day

Client Sample Number	Lab ID Number	Physical Description	Portion of Total Sample (%)	ASBESTOS CONTENT		Non-Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
				BY LAYER	Mineral Visual Estimate (%)		
22	EM 408680	A Gray perlitic material B Gray/white fibrous material C White fibrous woven material w/white resinous material	8 27 65	Chrysotile Amosite	8 7 ND	0 0 0	0 0 0
23	EM 408681	Not Analyzed	ND	Chrysotile	ND	0 0 0	0 0 0
24	EM 408682	Not Analyzed	TR	Amosite	ND	0 0 0	0 0 0
25	EM 408683	A Tan paint B Gray fibrous material	7 93	Chrysotile	ND	0 0 0	0 0 0
26	EM 408684	A Gray/tan fibrous material	100	Amosite	ND	0 1 1	0 0 0
27	EM 408685	A White fibrous plaster	100	Chrysotile Amosite	4 16	0 0 0	0 0 0
				WOLL = Wollastonite ORG = Organic Trem-Act = Tremolite-Actinolite BRUC = Brucite	WOLL = Wollastonite ORG = Organic Trem-Act = Tremolite-Actinolite BRUC = Brucite	GYP = Gypsum SYNTH = Synthetic	Data QA

ND = None Detected
CELL = Cellulose
TR = Trace, < 1% Visual Estimate

Project # 03-01243-011
 Address: 1215 Marshall Ave. NE
 Date: 5-24-95
 Page 1 of 2

ASBESTOS SAMPLING FORM

Sample #	Code	Material Description	Location	Condition	Damage Potential
1	CT-1	12" Ceiling Tile	Kitchen	(N) D SD	PD PSD
2	"	"		(N) D SD	PD PSD
3	"	"		(N) D SD	PD PSD
4	CTA	Adhesive	Kitchen	(N) D SD	PD PSD
5	"	"	Practice Room	(N) D SD	PD PSD
6	"	"	"	(N) D SD	PD PSD
7	CP-1	2x4 Panel - length wise fissures	"	N (D) SD	PD PSD
8	"	" "	Storage - 1	N (D) SD	PD PSD
9	"	" "	Storage - 2	N (D) SD	PD PSD
10	CP-2	2x4 "	"	N (D) SD	PD PSD
11	"		Assembly Room	N (D) SD	PD PSD
12	"		Computer Rm	N (D) SD	PD PSI
13	BCA	Bare Cova Adhesive	Practice Rm	N (D) SD	PD PSD
14	"	"	"	N (D) SD	PD PSI
15	"	"	Hallway	N (D) SD	PD PSI
16	WB-1	Gyp Board w/SC	Assemby Practice Rm	N (D) SD	PD PSI
17	"	" w/T & SC	Mech. Rm	N D SD	PD PSI
18	"	" " "	Storage - 2	N D SD	PD PSI
19	WP-1	wall plaster	Kitchen	N D SD	PD PSI
20	"	"	Assembly Rm	N D SD	PD PSI
21	"	"	Storage - 2	N D SD	PD PSI
22	TSI-1	Joint	Storage - 1	N (D) SD	PD PSI
23	"	"	Mechanical	N (D) SD	PD PSI
24	"	"	Storage - 2	N (D) SD	PD PSI
25	TSI-2	Rm	Mechanical	(D)	

Project # 03-01243-011
Address: 1215 Marshall Ave NE
Date: 5-24-99
Page 2 of 2

ASBESTOS SAMPLING FORM

Sample #	Code	Material Description	Location	Condition	Damage Potential
26	TST-	Ru - Brown	Storage - 2	N D SD	PD PSD
27		Haz Ru - Mag.	Mechanic's	N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD
				N D SD	PD PSD



ENVIRONMENTAL CONSULTANTS

2915 Waters Road • Suite 110 • Eagan, MN 55121-1562

CHAIN OF CUSTODY RECORD

COC/MN# 1846

PROJ. NO. MCD4

PROJECT NAME 1215 Marshall Ave NW

SAMPLES: (Signature)

Responsible Person

Ship To:

Rob Jensen

EnecoTech contact: Rob Jensen

Remarks/

Bottle No.

CONTAINERS

STATION LOCATION

DATE

TIME

COMPL

GRAB

NO. OF

CONTAINERS

REMARKS

REMARKS/BOTTLE NO.

REMARKS

Distribution: Original Accompanies Shipment; First Copy to Coordinator/Field Files; Second Copy to Representative at Inspected Facility

Split Samples:

 Accepted Declined

Signature

Signature

Signature

Signature

Signature

Signature

Signature

ATTACHMENT C

ASBESTOS INSPECTOR DOCUMENTATION

ATTACHMENT C

ASBESTOS INSPECTOR DOCUMENTATION

Certificate No: 5LM01149905BIR

Expiration Date: January 14, 2000

This is to certify that

Robert E. Jenson

has attended and successfully completed an

**ASBESTOS BUILDING INSPECTOR
REFRESHER TRAINING COURSE**

permitted by

the State of Minnesota under Minnesota Rules 4620.3702 to 4620.3722
and meets the requirements of
Section 206 of Title II of the Toxic Substances Control Act (TSCA)

conducted by

Lake States Environmental, Ltd.

in
Coon Rapids, MN on January 14, 1999
Examination Date: January 14, 1999

S. Jensen
Lake States Environmental, Ltd.
P. O. Box 645, Rice Lake, WI 54868
(800) 254-9811

S. Jensen
Training Instructor

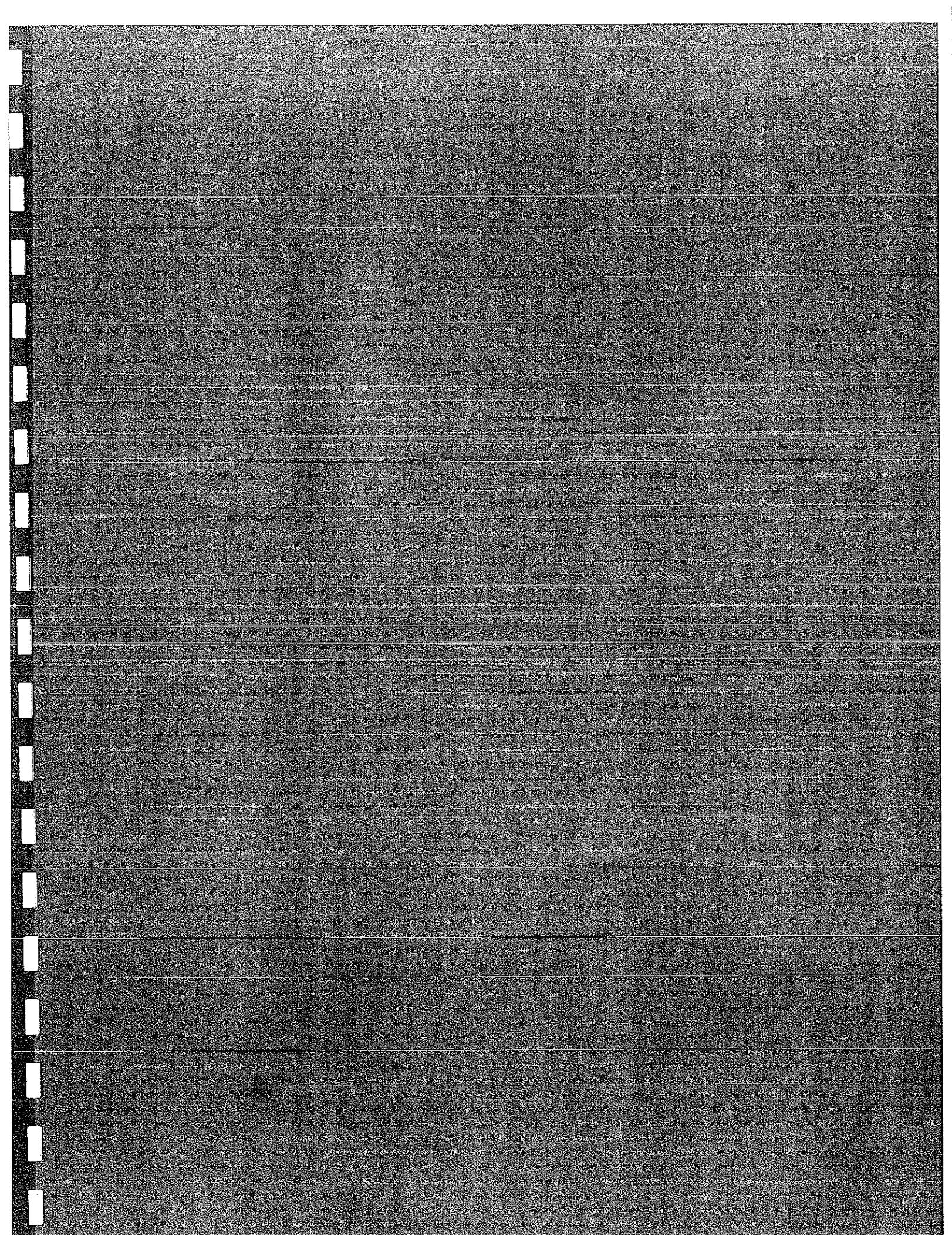


Commissioner of Health

Anne B. Sawyer

ASBESTOS
INSPECTOR
Certified by
STATE OF MINNESOTA
Department of Health
Expires: 01/14/2000
Name: Robert E. Jenson
Address: 2734 Park Row
North St Paul, MN 55109

No.	Issue Date
13648	02/25/99
5' 10"	Weight: 185 Date of Birth: 02/23/64





APPENDIX B

PCB LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

JUL 20 2006

FILE COPY

Page 1 of 7

Reservoirs Environmental, Inc.

2059 Bryant St. Denver, CO 80211
(303) 964-1986 Fax (303) 477-4275 Toll Free (866) RESI-ENV

July 20, 2006

Laboratory Code: RES
Subcontract Number: NA
Laboratory Report: RES 129017-1,2
Project Description: 3500236
Grain Belt Office Bldg-
1215 Marshall St NE,
Mpls, MN

GES (Eagan)
2915 Waters Rd. Suite 110
Eagan MN 55121

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code # 101896 and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively

Reservoirs Environmental, Inc has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 129017-1,2 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986

Sincerely,

Jeanne Spencer Orr
President

Analyst(s): _____
Paul D LoScalzo Wenlong Liu
Paul F. Knappe Rich Wegrzyn
Michael Scales

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory # 101896
TDH Licensed Laboratory # 30-0136

TABLE PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 129017-1,2
Client: GES (Eagan)
Client Project Number / P.O.: 3500236
Client Project Description: Grain Belt Office Bldg-1215 Marshall St NE, Mpls, MN
Date Samples Received: June 27, 2006
Analysis Type: PLM, Short Report
Turnaround: 3-5 Day
Date Analyzed: July 5, 2006

Client Sample Number	Lab ID Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content Mineral	Non-Asbestos Components (%)	
						Visual Estimate (%)	Non-Fibrous Fibers Components (%)
#28	EM 654533	A	White/tan ceiling tile	100	ND	80	20
#29	EM 654534	A	White/tan ceiling tile	100	ND	80	20
#30	EM 654535	A	White/tan ceiling tile	100	ND	80	20
#31	EM 654536	A	White/tan ceiling tile	100	ND	80	20
#32	EM 654537	A	Tan ceiling tile	100	ND	85	15
#33	EM 654538	A	White/tan ceiling tile	100	ND	80	20
#34	EM 654539	A	White ceiling tile	100	ND	60	40
#35	EM 654540	A	White ceiling tile	100	ND	60	40
#36	EM 654541	A	White ceiling tile	100	ND	60	40
#37	EM 654542	A	Yellow tile w/ white paint	100	ND	10	90
#38	EM 654543	A B	Black mastic Yellow tile	2 98	Chrysotile Chrysotile	10 15	0 0
#39	EM 654544	Not Analyzed				90	
#40	EM 654545	Not Analyzed				85	
#41	EM 654546	Not Analyzed				0	

ND = None Detected
TR = Trace, < 1% Visual Estimate

Trem-Act = Tremolite-Actinolite


 Analyst: LW
 Date: 10/10/06
 ID# 00000000000000000000
 Data QA

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory # 101896

TDH Licensed Laboratory # 30-0136

TABLE PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 129017-1,2

GES (Eagan)

3500236

Client Project Number / P.O.: Grain Belt Office Bldg-1215 Marshall St NE, Mpls, MN

Client Project Description: June 27, 2006

Date Samples Received: PLM, Short Report

Analysis Type: 3-5 Day

Turnaround: July 5, 2006

Date Analyzed:

Analyst: LW

Client Sample Number	Lab ID Number	L	A	Y	E	R	Asbestos Content			Non-Asbestos Components (%)		
							Sub Part (%)	Mineral	Visual Estimate (%)	Asbestos Components (%)	Non Fibrous Components (%)	
#42	EM 654547	A	Brown mastic	5			ND	ND	0	100		
			Black tar paper	28			ND	ND	40	60		
			Black tile	67			ND	ND	2	98		
#43	EM 654548	A	Brown mastic	2			ND	ND	0	100		
			Black tar paper	20			ND	ND	40	60		
			Black tile	78			ND	ND	2	98		
#44	EM 654549	A	Brown mastic	2			ND	ND	0	100		
			Black tar paper	20			ND	ND	40	60		
			Black tile	78			ND	ND	2	98		
#45	EM 654550	A	Brown mastic	2			ND	ND	0	100		
			Black tar paper	18			ND	ND	40	60		
			Black tile	80			ND	ND	0	100		
#46	EM 654551	A	Brown fibrous woven material	5			ND	ND	90	10		
			Black tar paper	5			ND	ND	40	60		
			Black tile	10			ND	ND	0	100		
#47	EM 654552	A	Yellow mastic	10			ND	ND	5	95		
			Black tar paper	20			ND	ND	40	60		
			Black tile	70			ND	ND	10	90		

ND = None Detected
TR = Trace, < 1% Visual Estimate

Trem-Act = Tremolite-Actinolite

DATA
Analyst: LW
Date: 7/5/06
Time: 10:20 AM
Version: 2
Page: 3
Total Pages: 4

2
Data QA

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory # 101896

TDH Licensed Laboratory # 30-0136

TABLE PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 129017-1,2

GES (Eagan)

3500236

Client Project Number / P.O.: Grain Belt Office Bldg-1215 Marshall St NE, Mpls, MN

Client Project Description: June 27, 2006

Date Samples Received: PLM, Short Report

Analysis Type: 3-5 Day

Turnaround: July 5, 2006

Date Analyzed:

Analyst: LN

Client Sample Number	Lab ID Number	L A Y E R	Physical Description	Asbestos Content		Non-Asbestos Fibers Components (%)	Non-Fibrous Components (%)
				Sub Part (%)	Mineral		
#48	EM 654553	A B	Tan adhesive Black cove base	5 95		ND ND	100 100
#49	EM 654554	A B	Brown adhesive Black cove base	10 90		ND ND	2 98
#50	EM 654555	A	Black cove base	100		ND ND	0 100
#51	EM 654556	A B	Brown adhesive Brown/tan cove base	15 85		ND ND	0 100
#52	EM 654557	A B C	Yellow mastic Black mastic Pink/brown tile	2 3 95	Chrysotile Chrysotile Chrysotile	15 4	85 96
#53	EM 654558		Not Analyzed			ND	100
#54	EM 654559		Not Analyzed			ND	100
#55	EM 654560	A B C	Yellow mastic White leveler Tan tile	2 3 95		ND ND ND	0 100 100
#56	EM 654561	A B C	Yellow mastic White leveler Tan tile	1 1 98		ND ND ND	100 100 100

ND = None Detected
TR = Trace, < 1% Visual Estimate

Trem-Act = Tremolite-Actinolite


 Digitally
Signed
by
Data
QA
Date:
2006-07-
14215
S-40109
Data QA

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory # 101896

TDH Licensed Laboratory # 30-0136

TABLE PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 129017-1,2

GES (Eagan)

#3500236

Grain Belt Office Bldg-1215 Marshall St NE, Mpls, MN

June 27, 2006

PLM, Short Report

3-5 Day

July 5, 2006

Analyst: LW

Client Project Number / P.O.:

Client Project Description:

Date Samples Received:

Analysis Type:

Turnaround:

Date Analyzed:

Client Sample Number	Lab ID Number	L A Y E R	Physical Description	Asbestos Content		Non-Asbestos Fibers Components (%)
				Sub Part (%)	Mineral	
#57	EM 654562	A B C	Yellow mastic White leveler Tan tile	1 1 98		ND ND ND
	EM 654563	A	Brown sheet flooring	100		ND
#58	EM 654564	A	Brown sheet flooring	100		ND
#59	EM 654565	A	Brown sheet flooring	100		ND
#60	EM 654566	A	Tan glaze w/ brown/multi-colored paint	100	Chrysotile Point Count	ND
#61	EM 654567 EM 654568		Not Analyzed Not Analyzed	4 2		0
#62	EM 654569	A	White/tan micaceous plaster w/ white paint	100	Chrysotile Point Count	98
#63	EM 654570	A	White/tan micaceous plaster w/ white paint	100	Chrysotile Point Count	0
#64	EM 654571 EM 654572	A	White perlitic plaster w/ white paint White/tan micaceous plaster w/ white paint	100 100	Chrysotile TR Chrysotile 2	0 0
#65						100
#66						98
#67						0

ND = None Detected
TR = Trace, < 1% Visual Estimate
Trem-Act = Tremolite-Actinolite

2 C J
Data QA

2 C J
Data QA

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory # 101896

TDH Licensed Laboratory # 30-0136

TABLE PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 129017-1,2
 Client: GES (Eagan)
 Client Project Number / P.O.: 3500236
 Client Project Description: Grain Belt Office Bldg-1215 Marshall St NE, Mpls, MN
 Date Samples Received: June 27, 2006
 Analysis Type: PLM, Short Report
 Turnaround: 3-5 Day
 Date Analyzed: July 5, 2006

Client Sample Number	Lab ID Number	L Y E R	A	Physical Description	Sub Part (%)	Asbestos Content		Non-Asbestos Fibers Components (%)
						Mineral	Visual Estimate (%)	
#68	EM 654573	A		White/tan micaceous plaster w/ white paint	100	Chrysotile	2	0
#69	EM 654574	A B		White resinous plaster w/ white paint White granular plaster w/ brown paint	40 60	Chrysotile	TR ND	0 0
#70	EM 654575	A B		White resinous plaster w/ white paint Brown plaster w/ green/multi-colored paint	40 60	Chrysotile	TR ND	0 0
#71	EM 654576	A B		White resinous plaster w/ white paint Brown plaster w/ green/multi-colored paint	40 60	Chrysotile	TR ND	0 0
#72	EM 654577	A B C		White plaster w/ white paint Tan granular plaster White plaster	20 20 60	ND ND ND	0 0 0	100 100 100
#73	EM 654578	A B		Tan granular plaster White plaster	20 80	ND ND	0 0	100 100
#74	EM 654579	A B		White plaster Tan granular plaster	2 98	ND ND	0 0	100 100
#75	EM 654580	A B		White plaster Tan granular plaster	2 98	ND ND	0 0	100 100

ND = None Detected
 TR = Trace, < 1% Visual Estimate

Trem-Act = Tremolite-Actinolite

Digital
File Name:
Date:
2006/07/
14:24:34
-0800

[Signature]
Data QA

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory # 101596
TDH Licensed Laboratory # 30-0136

TABLE PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 129017-1,2
 Client: GES (Eagan)
 Client Project Number / P.O.: 3500236
 Client Project Description: Grain Belt Office Bldg-1215 Marshall St NE, Mpls, MN
 Date Samples Received: June 27, 2006
 Analysis Type: PLM, Short Report
 Turnaround: 3-5 Day
 Date Analyzed: July 5, 2006

Client Sample Number	Lab ID Number	L Y E R	A	Physical Description	Asbestos Content		Non-Asbestos Fibers Components (%)
					Sub Part (%)	Mineral	
#76	EM 654581	A		Tan plaster w/ tan paint	50		ND
		B		Tan granular plaster	50		ND
#77	EM 654582	A		Yellow adhesive	100		ND
#78	EM 654583	A		Yellow adhesive	100		ND
#79	EM 654584	A		Yellow adhesive	100		ND
#80	EM 654585	A		Gray leveler	100		ND
#81	EM 654586	A		Yellow/white leveler	100		ND
#82	EM 654587	A		Black resinous tar	100	Chrysotile	3
#83	EM 654588	A		White micaceous plaster	100		ND
#84	EM 654589	A		White micaceous plaster	100		ND
#85	EM 654590	A		White micaceous plaster	100		ND
#86	EM 654591	A		Black cove base	100		ND
#87	EM 654592	A		White/tan ceiling tile	100		ND
#88	EM 654593	A		Tan insulation	100		ND

ND = None Detected
 TR = Trace, < 1% Visual Estimate

Trem-Act = Tremolite-Actinolite

Duly
Signed
by Gita
Date 07/07
2006
14:23
\$40000

DATA QA

Reservoirs Environmental, Inc.

2050 Bryant St. Denver, CO 80211
(303) 354-1886 Fax (303) 477-4275 Toll Free (888) RES-ENV

RES Job # 12-9017

page 2 of 3

SAMPLES SUBMITTED BY:

6E5

REQUESTED ANALYSIS	VALID MATRIX CODES		LAB NOTES:	
	Ab = A	Bulk = B	Point = P	Wet = W
	Dust = D	Soli = S	Drinking Water = DW	Waste Water = WW
	Vessel Water = VV		Other = O	
	ASTM E1152 approved with matrix only			
Sample Volume	Sample Code		Collection Method	
(L) / Area	Area	Date Collected	Time Collected	EM Number (Laboratory Use Only)
OTHER				
DETAILS - STEL, NTE, SEQ, GRD, PREP				
DETAILS - Matrix(es)				
QCLT - Total Response				
PEI - Food, Paper, Glass				
PEI - Micro, Metal, Residue, ICP, ICP-ICP-MS, ICP-ICP-PREP				
PLM - Shells, rocks, living material, Plant Sample				
TEN - Micro, Litter, Residue, ICP, ICP-ICP-PREP				
Client Sampling ID number: (Sample ID's must be unique)				
14	1	2	3	4
15	1	2	3	4
16	1	2	3	4
17	1	2	3	4
18	1	2	3	4
19	1	2	3	4
20	1	2	3	4
21	1	2	3	4
22	1	2	3	4
23	1	2	3	4
24	1	2	3	4
25	1	2	3	4
26	1	2	3	4
27	1	2	3	4
28	1	2	3	4
29	1	2	3	4
30	1	2	3	4
31	1	2	3	4
32	1	2	3	4
33	1	2	3	4
34	1	2	3	4
35	1	2	3	4
36	1	2	3	4
37	1	2	3	4
38	1	2	3	4
39	1	2	3	4
40	1	2	3	4

Reservoirs Environmental, Inc.

2050 Bryant St., Denver, CO 80211
 (803) 364-1808 Fax (303) 477-4275 Tel/Fax (888) RESI-ENV

PES Job # 12.9017

Page 3 of 3

SAMPLES SUBMITTED BY:

GFS

REQUESTED ANALYSIS	VALID MATRIX CODES				LAB NOTES:
	Air = A		Bulk = B	Point = P	
	Dust = D	Soil = S	Water = W	Drilled Water = DW	
Waste Water = WW					Other = O
LSTN/ETUZ Approved wide range city*					
Geologic Features	Mtch Codes	Date Collected	Time Collected	E.M. Number	Laboratory test Only
Sample Volume	G/L / Ales				
ORGANICS: OXID.					
CRATE, TRP, WASHING FRMS, MULCH ETC					
MINERALS - ASHLEYS					
DUSS - TELL, READING					
PEN - DEXA, XRD, OSHA					
SOIL: GROUT, LEAD, ZINC, ZIRCONIUM, RUST					
TEM - ALBERT, LAVAL, ZINC, ZIRCO, HANNA, PEN					
(Sample ID must be unique)					
Client sample ID number	1	2	3	4	5
	41	42	43	44	45
	46	47	48	49	50
	51	52	53	54	55
	56	57	58	59	60
	61	62	63	64	65
	66	67	68	69	70

Res#129017

Groundwater and Environmental Services, Inc. (GES)
2915 Waters Road, Suite 110
Eagan, Minnesota 55121
651-405-1033 (phone)
651-405-1036 (fax)

Asbestos Sample Chain of Custody Form
(To accompany the asbestos sampling form.)

GES Project Number: 3500236

Project Name: Grain Belt Office Bldg - 1215 Marshall Street NE, Mpls, MN

Date Sampled: 6/26/2006 6/23/06

Number of Samples: 60

Samplers Signatures: Julyn E Difte

Laboratory Instructions: Analyze for percent asbestos by PLM. Test samples until greater than 1% asbestos (progressive) by layer. Point coat plaster (P), window glaze (WG), and acoustical spray (AS) samples if sample contains between >1% and 6% asbestos.

Please email results to rienson@gesonline.com

Laboratory Turnaround Time: 3-5 Day Standard

Samples Shipped By: FedEx/UPS

Relinquished By: Julyn E Difte Date: 4/26/06 Time: 1700
Received By: Appraiser Date: 4/27/06 Time: 045pm
Relinquished By: Date: Time:
Received By: Date: Time:



Groundwater
& Environmental Services, Inc.

Groundwater & Environmental Services, Inc.

Address: 1215 Marshall Street, NE
Project # 330026
Date: 8/23/2006
Page 1 of 4

ASBESTOS SAMPLING FORM

Sample Number	Code	Material Description	Location	Friable	V/N*	Condition	Potential Damage
				N D SD	N D SD	N D SD	N D SD
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28	CT-1	12" White w/ holes	Office 1 M	✓	✓	✓	✓
29	II	II	II	II	II	II	II
30	II	II	II	II	II	II	II
31	CT-2	12" White w/ dimples	Offices, 1 S	II	II	II	II
32	II	II	II	II	II	II	II
33	II	II	II	II	II	II	II
34	CT-3	12" White w/ fissures	Office 1 N	II	II	II	II
35	II	II	II	II	II	II	II
36	II	II	II	II	II	II	II

CRM - Ceiling tile adhesive
 GBB - Gypsum Board
 PV - Painted plaster
 ST - Stucco
 RC - Base Cove

FT - Floor tile
 P - Plaster
 SR - Stucco
 RC - Base Cove

CA - Carpet adhesive
 AS - Acoustical spray
 RRF - Roofing felt
 * Friable during normal demolition

TAC - Tare and Joint Compound



ASBESTOS SAMPLING FORM

Sample Number	Code	Material Description	Location	Friable	V/N*	Y/N*	Condition	Potential Damage
27	FT-1	9" x 2' fiber w/ green border	Open office area - SE corner	N	N	N	D SD	N D SD
38	11	11	Closet	Y	Y	Y	D SD	N D SD
39	11	11	Office 3 F	Y	Y	Y	D SD	N D SD
40	11	11	Office 4 D	Y	Y	Y	D SD	N D SD
41	11	11	Office 4 D	Y	Y	Y	D SD	N D SD
42	FT-2	9" Board w/ black	Hallway near Soffe	Y	Y	Y	D SD	N D SD
43	11	11	Office 2 E	Y	Y	Y	D SD	N D SD
44	11	11	Office 2 E	Y	Y	Y	D SD	N D SD
45	FT-3	Black border	Hallway near office 2 E	Y	Y	Y	D SD	N D SD
46	11	11	Office 2 E	Y	Y	Y	D SD	N D SD
47	11	11	Office 2 E	Y	Y	Y	D SD	N D SD
48	GC-1	6" Black w/ tan edges	open office half wall	Y	Y	Y	D SD	N D SD
49	11	11	Office 1 W	Y	Y	Y	D SD	N D SD
50	11	11	Office 1 F	Y	Y	Y	D SD	N D SD
51	GC-2	6" Tan	Mechanical room	Y	Y	Y	D SD	N D SD
52	FT-4	17" Pink to yellow border	Walls	Y	Y	Y	D SD	N D SD
53	11	11	Walls	Y	Y	Y	D SD	N D SD
54	11	11	Walls	Y	Y	Y	D SD	N D SD

CB - Gypsum Board
PT - Troweled plaster
SP - Stucco
BC - Base Coving

CFM - Ceiling tile adhesive
SVF - Sheet vinyl flooring
RFL - Roof Flashing
T & JC - Tape and Joint Compound

CA - Carpet adhesive
AS - Acoustical spray
RFP - Roofing felt
F - Friable during normal demolition



ASBESTOS SAMPLING FORM

Sample Number	Code	Material Description	Sample Location	VIN	VIN*	VIN*	VIN*	VIN*	VIN*	VIN*	Condition	Potential Damage
55	FT-S	16-1 Wood pattern vinyl tile vinyl tile vinyl tile vinyl tile	NW entrance	N	N	N	N	N	D	SD	N D SD	
56	11	11	11						D	SD	N D SD	
57	u	u	11						D	SD	N D SD	
58	SUF-1	wood pattern w/ border	Office 2B						D	SD	N D SD	
59	11	11	11						D	SD	N D SD	
60	u	u	11						D	SD	N D SD	
61	Misc-1	Window Glaze	Office 1B						D	SD	N D SD	
62	11	u	Office 1B						D	SD	N D SD	
63	u	u	Office 2D						D	SD	N D SD	
64	AS-1	Acoustical Ceiling Spray, Acoustical	1st floor wall board						D	SD	N D SD	
65	11	Ceiling Spray, Acoustical	Office 1E						D	SD	N D SD	
66	u	u	Office 2E						D	SD	N D SD	
67	u	u	2nd floor ceiling panel						D	SD	N D SD	
68	u	u	Office 2B						D	SD	N D SD	
69	PT-1	Troweled Plaster	E. Stairs to basement						D	SD	N D SD	
70	u	u	Bar room						D	SD	N D SD	
71	u	u	11						D	SD	N D SD	
72	P-1	Plaster	2nd floor Basement						D	SD	N D SD	

CA - Carpet adhesive
 AS - Acoustical spray
 RFL - Roofing felt
 * Plumb during normal demolition

CRM - Ceiling tile adhesive
 SVP - Sheet vinyl flooring
 RFL - Roofing felt
 T & JC - Tape and Joint Compound

GB - Gypsum Board
 PT - Precoated plaster
 CL - Caulking
 TS - Insulation
 BC - Base Cove

FR - Floor tile
 P - Plaster
 ST - Stucco
 BC - Base Cove

ASBESTOS SAMPLING FORM

Sample Number	Code	Material Description	Location	Friable	V/N*	V/N*	Condition	Potential Damage
73	P-1	Plaster	2nd floor walkways	X	X	X	SD	N D SD
74	11	11	Office B	X	X	X	SD	N D SD
75	11	11	"	X	X	X	SD	N D SD
76	11	11	1st floor hallway	X	X	X	SD	N D SD
77	Misc-2	Carpet adhesive	1st floor back	X	X	X	SD	N D SD
78	11	11	open office	X	X	X	SD	N D SD
79	"	"	open office fl	X	X	X	SD	N D SD
80	Misc-3	Carpet Backer	office 1F	X	X	X	SD	N D SD
81	Misc-4	Yellow Floor level	office 2F	X	X	X	SD	N D SD
82	Misc-5	Stainless steel deck plates	"	X	X	X	SD	N D SD
83	Misc-6	Gum Stays on pipes	"	X	X	X	SD	N D SD
84	11	11	"	X	X	X	SD	N D SD
85	"	"	"	X	X	X	SD	N D SD
86	Misc-7	Base Cove - Blocks on bar	"	X	X	X	SD	N D SD
87	C1-1	2' x 9' Cellulose panel	Drywall storage 1 (1 panel)	X	X	X	SD	N D SD
88	Misc-8	Misc Panel	Affix	X	X	X	SD	N D SD
				X	X	X	SD	N D SD
				X	X	X	SD	N D SD

FF - Floor tile
P - Plaster
ST - Stucco
BC - Base Cove
CB - Gypsum Board
PT - Pre-toved plaster
CL - Caulking
TSI - Insulation

CTM - Ceiling tile adhesive
SVT - Sheet vinyl flooring
RFL - Roof flashing
T & JC - Tape and Joint Compound

CA - Carpet adhesive
AS - Acoustical spray
RPF - Roofing felt
* Friable during normal demolition

July 14, 2006

Mr. Rob Jenson
Groundwater and Environmental Services, Inc.
1285 Corporate Center Dr
Eagan, MN 551211562

RE: Project: 3500236 GRAIN BELT OFFICE BLDG
Pace Project No.: 1034866

Dear Mr. Jenson:

Enclosed are the analytical results for sample(s) received by the laboratory on July 07, 2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Carol Davy

carol.davy@pacelabs.com
Project Manager

Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 7

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SAMPLE SUMMARY

Project: 3500236 GRAIN BELT OFFICE BLDG

Pace Project No.: 1034866

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1034866001	TAR-S WALL	Solid	07/07/06 08:30	07/07/06 14:00

REPORT OF LABORATORY ANALYSIS

Page 2 of 7

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SAMPLE ANALYTE COUNT

Project: 3500236 GRAIN BELT OFFICE BLDG
Pace Project No: 1034866

Lab ID	Sample ID	Method	Analytes Reported
1034866001	TAR- S WALL	% Moisture	1
		EPA 8082	11

REPORT OF LABORATORY ANALYSIS

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Page 3 of 7



ANALYTICAL RESULTS

Project: 3500236 GRAIN BELT OFFICE BLDG

Pace Project No.: 1034866

Sample: TAR-S WALL Lab ID: 1034866001 Collected: 07/07/06 08:30 Received: 07/07/06 14:00 Matrix: Solid

Solid results reported on dry weight basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3550								
PCB-1016 (Aroclor 1016)	ND ug/kg		3510	20	07/10/06 20:07	07/13/06 10:43	12674-11-2	
PCB-1221 (Aroclor 1221)	ND ug/kg		3510	20	07/10/06 20:07	07/13/06 10:43	11104-28-2	
PCB-1232 (Aroclor 1232)	ND ug/kg		3510	20	07/10/06 20:07	07/13/06 10:43	11141-16-5	
PCB-1242 (Aroclor 1242)	12000 ug/kg		3510	20	07/10/06 20:07	07/13/06 10:43	53469-21-9	
PCB-1248 (Aroclor 1248)	ND ug/kg		3510	20	07/10/06 20:07	07/13/06 10:43	12672-29-6	
PCB-1254 (Aroclor 1254)	21800 ug/kg		3510	20	07/10/06 20:07	07/13/06 10:43	11097-69-1	
PCB-1260 (Aroclor 1260)	ND ug/kg		3510	20	07/10/06 20:07	07/13/06 10:43	11096-82-5	
PCB-1262 (Aroclor 1262)	ND ug/kg		3510	20	07/10/06 20:07	07/13/06 10:43	37324-23-5	
PCB-1268 (Aroclor 1268)	ND ug/kg		3510	20	07/10/06 20:07	07/13/06 10:43	11100-14-4	
Tetrachloro-m-xylene (S)	103 %		50-150	20	07/10/06 20:07	07/13/06 10:43	877-09-8	
Decachlorobiphenyl (S)	110 %		50-150	20	07/10/06 20:07	07/13/06 10:43	2051-24-3	
Dry Weight	Analytical Method: % Moisture							
Percent Moisture	2.9 %		0.10	1		07/07/06 00:00		1M

Date: 07/14/2006 03:34 PM

REPORT OF LABORATORY ANALYSIS

Page 4 of 7

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QUALITY CONTROL DATA

Project: 3500236 GRAIN BELT OFFICE BLDG

Pace Project No.: 1034866

QC Batch: MPRP/6631

Analysis Method: % Moisture

QC Batch Method: % Moisture

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 1034866001

METHOD BLANK: 236565

Associated Lab Samples: 1034866001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Percent Moisture	%	ND	0.10	

SAMPLE DUPLICATE: 236566

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.9	4.9	2	30	

SAMPLE DUPLICATE: 236648

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.1	22.2	.7	30	

Date: 07/14/2006 03:34 PM

REPORT OF LABORATORY ANALYSIS

Page 5 of 7

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QUALITY CONTROL DATA

Project: 3500236 GRAIN BELT OFFICE BLDG

Pace Project No.: 1034866

QC Batch: OEXT/4544	Analysis Method: EPA 8082
QC Batch Method: EPA 3550	Analysis Description: 8082 GCS PCB
Associated Lab Samples: 1034866001	

METHOD BLANK: 237051

Associated Lab Samples: 1034866001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	
PCB-1262 (Aroclor 1262)	ug/kg	ND	33.0	
PCB-1268 (Aroclor 1268)	ug/kg	ND	33.0	
Tetrachloro-m-xylene (S)	%	87	50-150	
Decachlorobiphenyl (S)	%	84	50-150	

LABORATORY CONTROL SAMPLE: 237052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	667	553	83	55-130	
PCB-1260 (Aroclor 1260)	ug/kg	667	536	80	55-141	
Tetrachloro-m-xylene (S)	%			86	50-150	
Decachlorobiphenyl (S)	%			83	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 237053

237054

Parameter	Units	MS		MSD		MS Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		1034668001 Result	Spike Conc.	Spike Conc.	MS Result							
PCB-1016 (Aroclor 1016)	ug/kg	ND	683	685	584	626	86	91	50-150	7	30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	683	685	533	548	78	80	50-150	3	30	
Tetrachloro-m-xylene (S)	%						84	82	50-150			
Decachlorobiphenyl (S)	%						78	81	50-150			

Date: 07/14/2006 03:34 PM

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 3500236 GRAIN BELT OFFICE BLDG

Pace Project No.: 1034866

DEFINITIONS

DF - Dilution Factor, if reported represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

MDL - Adjusted Method Detection Limit.

S - Surrogate

1 2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene

Consistent with EPA guidelines unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

ANALYTE QUALIFIERS

1M The amount of sample used for wet mass was more than the amount specified by the method due to the sample matrix

REPORT OF LABORATORY ANALYSIS

Page 7 of 7

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CHAIN OF CUSTODY RECORD

COC # 5552

Ship To:
Pace

SAMPLER'S Signature:

*Joy Johnson*CES
Environmental contact: *Russ Jenson*

Remarks/Bottle No.

Tar on concrete

NO.

OF

CONTAINERS

STATION LOCATION

GRAB

COMP

TIME

DATE

RELEASER'S SIGNATURE

7/7 8:30 X Tar - S Wall

PROJECT NAME: Grain Belt Office Blids

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Received by: (Signature)
<i>Joy Johnson</i>	7/7/00 14:00			
<i>Joy Johnson</i>				
<i>Joy Johnson</i>				

Split Samples Accepted Declined

Distribution: Original Accompanies Shipment First Copy to Coordinator Field Files Second Copy to Representative of Inspected Facility

Signature:

T-221

Sample Condition Upon Receipt

Pace Analytical

Client Name: GES Project # 1034866Carrier: FedEx UPS USPS Client Commercial Pace Other _____Custody Seal on Cooler/Box Present: yes no Seals intact: yes noPacking Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used: 230194010

Type of Ice: Wet Blue None Samples on ice cooling process has begunCooler Temperature: 22.5

Biological Tissue Is Frozen: Yes No

Date and initials of person reviewing contents: J. J. / J. M.

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DNA	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DNA	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DNA	3.
Shipper Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DNA	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DNA	5.
Next Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> DNA	6.
Initial Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> DNA	7.
Client Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DNA	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DNA	9.
Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> DNA	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DNA	10.
Corrected volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DNA	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DNA	12.
Includes date/time/ID/Analysis Matrix:	<i>SL</i>	
Containers needing preservation have been checked:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DNA	13.
Containers needing preservation are found to be in compliance with EPA recommendation:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DNA	
None: VOA, coliform, TOC, OSG, W-DRG (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> DNA	14.
Aerospaces in VOA Vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DNA	15.
Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> DNA	16.
Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> DNA	
1 Trip Blank Lot # (if purchased):		

Next Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR
Division Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



APPENDIX C

INSPECTOR CERTIFICATION

Certificate No: 5LM02150603IR

Expiration Date: February 15, 2007

This is to certify that

Jaclyn Dylla

has attended and successfully completed an

ASBESTOS INSPECTOR

REFRESHER TRAINING COURSE

permitted by

the State of Minnesota under Minnesota Rules 4620.3702 to 4620.3722
and meets the requirements of
Section 206 of Title II of the Toxic Substances Control Act (TSCA)
conducted by

Lake States Environmental, Ltd.

White Bear Lake, MN on February 15, 2006

Examination Date: February 15, 2006

Jaclyn E. Dylla
Lake States Environmental, Ltd.
P. O. Box 645, Rice Lake, WI 54868
(800) 254-9811



Jaclyn E. Dylla
Director, Env Health Div

**MDH ASBESTOS
INSPECTOR**

Certified by:
State of Minnesota
Department of Health
Expires: 02/15/2007

Jaclyn E Dylla
216 - 15th Ave N
South St Paul, MN 55075

No AI3905 Issued: 03/09/2006

Jaclyn E. Dylla

Training Instructor

**MDH ASBESTOS
INSPECTOR**

Certified by
State of Minnesota
Department of Health
Expires: 04/28/2007
Jay T Moldenhauer
2575 N Dunlap St
Roseville, MN 55113.



P. T. Moldenhauer
A. Blangren
Director, Env. Health Div

No AI3589 Issued: 05/16/2006

Certificate No: 5LM04280618IR

Expiration Date: April 28, 2007

This is to certify that

Jay T. Moldenhauer

has attended and successfully completed an

ASBESTOS INSPECTOR

REFRESHER TRAINING COURSE

Permitted by

the State of Minnesota under Minnesota Rules 4620.3702 to 4620.3722

and meets the requirements of

Section 206 of Title II of the Toxic Substances Control Act (TSCA)

conducted by

Lake States Environmental, Ltd.^m

White Bear Lake, MN on April 28, 2006

Examination Date: April 28, 2006

*Lake States Environmental, Ltd.
P. O. Box 645, Rice Lake, WI 54868
(800) 254-9811*

Training Instructor

J. Scott M. Soddy